

BID REJECTION FORM

Bid number: 50-00123931

Vendor Name: SGS North America Inc

Reasons for

Rejection: Bid rejected for the following:

Did not submit written evidence of the individual signing the bid
having such authority.

Incorrect name listed as the firm name on the bid form.

Affidavit lists Jefferson Parish, Louisiana but notary in California
not authorized in Louisiana.

REVIEWED BY:

Buyer Name: Melissa Ovalle

Date: 9/24/18

Chief Buyer: 

Date: 9/24/18

DATE: 8/22/2018

Page: 5

BID NO.: 50-00123931

BID FORM
Non Public Works

All Public Work Projects are required to use the Louisiana Uniform Public Work Bid Form

All prices must be held firm unless an escalation provision is requested in this bid. Jefferson Parish will allow one escalation during the term of the contract, which may not exceed the U.S. Bureau of Labor Statistics National Index for all Urban Consumers, unadjusted 12 month figure. The most recently published figure issued at the time an adjustment is requested will be used. A request must be made in writing by the vendor, and the escalation will only be applied to purchases made after the request is made.

Are you requesting an escalation provision?

YES _____ NO X

MAXIMUM ESCALATION PERCENTAGE REQUESTED _____%

INITIAL BID PRICES WILL REMAIN FIRM THROUGH THE DATE OF 12/31/2020.

For the purposes of comparison of bids when an escalation provision is requested, Jefferson Parish will apply the maximum escalation percentage quoted by the bidder to the period to which it is applied in the bid. The initial price and the escalation will be used to calculate the total bid price. It will be assumed, for comparison of prices only, that an equal amount of material or labor is purchased each month throughout the entire contract.

DELIVERY: FOB JEFFERSON PARISH

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES _____

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable) _____

THIS SECTION MUST BE COMPLETED BY BIDDER:

FIRM NAME: Fran Christopher

ADDRESS: 900 Georgia Avenue, Suite 1000

CITY, STATE: Deer Park, TX ZIP: 77536

TELEPHONE: (281) 478-8169 FAX: () _____

EMAIL ADDRESS: fran.christopher@sgs.com

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: #1

NUMBER: #2

NUMBER: _____

NUMBER: _____

TOTAL PRICE OF ALL BID ITEMS: \$ 12,263.00

AUTHORIZED SIGNATURE: Fran Christopher

Fran Christopher

Printed Name

TITLE: U.S. Director, Business Development

SIGNING INDICATES YOU HAVE READ AND COMPLY WITH THE INSTRUCTIONS AND CONDITIONS.

NOTE: All bids should be returned with the BID NUMBER and BID OPENING DATE indicated on the outside of the envelope submitted to the Purchasing Department.

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00123931

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	1,813.00	EA	<p>TWO (2) YEAR CONTRACT FOR LUBE OIL ANALYSIS FOR THE JEFFERSON PARISH DEPT. OF PUBLIC WORKS - DRAINAGE PUMPING STATION OPERATIONS AND ALL JEFFERSON PARISH AGENCIES AND MUNICIPALITIES</p> <p>0010 - Sample oil analysis for existing in-service diesel engines consisting of the following:</p> <p>1) Viscosity SSU @ 210 Degrees F 2) Fuel Dilution - Value derived from physical characteristics and confirmed by flash point or gas chromatography 3) Total Solids (ASTM D893 or D4055) 4) Water 5) SAE Weight 6) T.B.N. (By ASTM D2896) 7) Spectrochemical Analysis 20 Elements</p>	6.50	11,785.50
2	45.00	EA	<p>0020 - Sample lube oil analysis for existing gear drives and/or existing bearings consisting of the following:</p> <p>1) Viscosity SSU @ 100 Degrees F 2) Viscosity SSU @ 210 Degrees F 3) Water - Parts per million 4) Total Solids (ASTM D893 or D4055) 5) T.A.N. (By ASTM D664) 6) Spectrochemical Analysis 20 Elements</p>	7.50	337.50
3	4.00	EA	<p>0030 - Sample lube oil analysis for stock oil consisting of the following:</p> <p>1) Viscosity @ 100 Degrees F 2) Viscosity @ 210 Degrees F 3) Viscosity Index 4) Flash Point (ASTM D92) 5) Pour Point (ASTM D97) 6) Sulphated Ash (Comparable to ASTM D874) 7) Spectrochemical Analysis 20 Elements 8) Appearance</p>	30.00	120.00
4	1.00	EA	<p>0040 - Sample fuel oil analysis consisting of the following:</p> <p>1) API Gravity 2) Distillation Test 3) Cetane Index 4) Sulphur Index 5) Water and Sediment 6) Appearance</p>	20.00	20.00

DATE (MM/DD/YYYY)
09/12/2018

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).


PRODUCER Willis of New York, Inc. c/o 26 Century Blvd P.O. Box 305191 Nashville, TN 372305191 USA	CONTACT NAME: PHONE (A/C, No, Ext): 1-877-945-7378 FAX (A/C, No): 1-888-467-2378 E-MAIL ADDRESS: certificates@willis.com	
	INSURER(S) AFFORDING COVERAGE INSURER A: Allianz Global Risks US Insurance Company INSURER B: ACE American Insurance Company INSURER C: Indemnity Insurance Company of North Ameri INSURER D: Agri General Insurance Company INSURER E: ACE Fire Underwriters Insurance Company INSURER F:	
INSURED SGS Oil, Gas, and Chemicals Services Division Division of SGS North America Inc. 201 Route 17 North 7th floor Rutherford, NJ 07070 USA	NAIC # 35300 22667 43575 42757 20702	

REVISION NUMBER:

INSR LTR	TYPE OF INSURANCE		ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/>	COMMERCIAL GENERAL LIABILITY	Y		CGL 2010859	01/01/2018	01/01/2019	EACH OCCURRENCE	\$ 2,000,000
	<input type="checkbox"/>	CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 300,000
	<input type="checkbox"/>							MED EXP (Any one person)	\$ 10,000
	<input type="checkbox"/>							PERSONAL & ADV INJURY	\$ 2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE	\$ 2,000,000
	<input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC	PRODUCTS - COMP/OP AGG						\$ 2,000,000	
	<input type="checkbox"/>	OTHER:							\$
B	AUTOMOBILE LIABILITY		Y		ISA H25158969	07/01/2018	07/01/2019	COMBINED SINGLE LIMIT (Ea accident)	\$ 2,000,000
	<input checked="" type="checkbox"/>	ANY AUTO						BODILY INJURY (Per person)	\$
	<input type="checkbox"/>	OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS						BODILY INJURY (Per accident)	\$
	<input type="checkbox"/>	HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	\$
	<input type="checkbox"/>	AUTOS ONLY <input type="checkbox"/>							\$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR							EACH OCCURRENCE	\$
	EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE							AGGREGATE	\$
	DED <input type="checkbox"/> RETENTION \$								\$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY		N/A		WLCR65225141	07/01/2018	07/01/2019	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)							E.L. EACH ACCIDENT	\$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below							E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
								E.L. DISEASE - POLICY LIMIT	\$ 1,000,000
D	Workers Compensation & Employers Liability				WLCR65225220	07/01/2018	07/01/2019	E.L. Each Accident	\$1,000,000
	Per Statute - (TN)							E.L. Disease - Pol Lmt	\$1,000,000
								E.L. Disease Each Emp	\$1,000,000

SEE ATTACHED

CANCELLATION

CERTIFICATE HOLDER	CANCELLATION
	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
Jefferson Parish Purchasing Department 200 Derbigny Street General Government Building, Suite 4400 Gretna, LA 70053	AUTHORIZED REPRESENTATIVE 

BATCH: 863383

AGENCY CUSTOMER ID: _____

LOC #: _____



ADDITIONAL REMARKS SCHEDULE

Page 2 of 2

AGENCY Willis of New York, Inc.		NAMED INSURED SGS Oil, Gas, and Chemicals Services Division Division of SGS North America Inc. 201 Route 17 North 7th floor Rutherford, NJ 07070 USA	
POLICY NUMBER See Page 1		EFFECTIVE DATE: See Page 1	
CARRIER See Page 1	NAIC CODE See Page 1		

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: 25 FORM TITLE: Certificate of Liability Insurance

Jefferson Parish, its Districts Departments and Agencies under the direction of the Parish President and the Parish Council are included as Additional Insureds as respects to General Liability and Auto Liability.

INSURER AFFORDING COVERAGE: ACE Fire Underwriters Insurance Company

NAIC#: 20702

POLICY NUMBER: SCFC65225268 EFF DATE: 07/01/2018 EXP DATE: 07/01/2019

TYPE OF INSURANCE:	LIMIT DESCRIPTION:	LIMIT AMOUNT:
Workers Compensation	E.L. Each Accident	\$1,000,000
& Employers Liability	E.L. Disease -Pol Lmt	\$1,000,000
Per Statute - (WI)	E.L. Disease Each Emp	\$1,000,000

Request for Taxpayer Identification Number and Certification

Give Form to the
requester. Do not
send to the IRS.

Print or type See Specific Instructions on page 2.	1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. SGS North America Inc	
	2 Business name/disregarded entity name, if different from above	
	3 Check appropriate box for federal tax classification; check only one of the following seven boxes: <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ Note. For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the line above for the tax classification of the single-member owner. <input type="checkbox"/> Other (see instructions) ▶	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ <i>(Applies to accounts maintained outside the U.S.)</i>
	5 Address (number, street, and apt. or suite no.) PO Box 2502	Requester's name and address (optional)
	6 City, state, and ZIP code Carol Stream, Illinois 60132	
	7 List account number(s) here (optional)	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for guidelines on whose number to enter.

Social security number								
			-					
or								
Employer identification number								
1	3		-	3	0	4	1	3
							9	0

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here	Signature of U.S. person ▶ <i>Aaron Youmans</i>	Date ▶ <i>January 9, 2017</i>
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.
Future developments. Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at www.irs.gov/fw9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)

- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
 - Form 1099-C (canceled debt)
 - Form 1099-A (acquisition or abandonment of secured property)
- Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding? on page 2.

By signing the filled-out form, you:

- Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
- Certify that you are not subject to backup withholding, or
- Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
- Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting?* on page 2 for further information.

Non-Public Works Bid

AFFIDAVIT

STATE OF LouisianaPARISH/COUNTY OF Jefferson

BEFORE ME, the undersigned authority, personally came and appeared: _____
Linda Perry, (Affiant) who after being by me duly sworn, deposed and said that
he/she is the fully authorized Branch Mgr of BGS NA (Entity),
the party who submitted a bid in response to Bid Number 50-00123931 to the Parish of
Jefferson.

Affiant further said:

Campaign Contribution Disclosures

(Choose **A** or **B**, if option **A** is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

Choice B X there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Debt Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

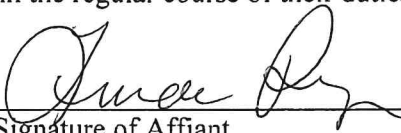
Choice B X _____ There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

[The remainder of this page is intentionally left blank.]

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.



Signature of Affiant

Linda Perry

Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME

ON THE _____ DAY OF _____, 20____.

Notary Public

Printed Name of Notary

Notary/Bar Roll Number

My commission expires _____.

See Attached California
Acknowledgement/Jurat

92
9/13/18

CALIFORNIA JURAT WITH AFFIANT STATEMENT

GOVERNMENT CODE § 8202

- ☒ See Attached Document (Notary to cross out lines 1-6 below)
☐ See Statement Below (Lines 1-6 to be completed only by document signer[s], *not* Notary)

1
2
3
4
5
6

gc
9/13/18

Signature of Document Signer No. 1

Signature of Document Signer No. 2 (if any)

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of Solano

Subscribed and sworn to (or affirmed) before me

on this 13 day of Sept, 2018,
by Date Month Year

(1) Linda Perry

(and (2) _____),

Name(s) of Signer(s)

proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.



Signature Graciela Curiel
Signature of Notary Public

Seal
Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: Affidavit Document Date: 9/13/18

Number of Pages: 3 Signer(s) Other Than Named Above: None

Test	Method	Instrument
TAN, TBN	D664, D2896, D4739 (modified)	Metrohm OMNIS and 855 Auto Titrators
Particle Count	ISO 4406	CINRG Automated Particle Counter
Spectrochemical Analysis	D1158	Spectro Arcos ICP Spectrometer with Acaros Auto Dilutor
Kinematic Viscosity @ 100C, 40C	D445	Canon CAV/Mini Qvx Automated Viscometers
Fuel dilution	D7593	Falcon GC with Talon Autosampler
Soot, Oxidation, Nitration, Sulfation	E2412	Perkin Elmer FTIR with JANUS Autosampler
Water	D6304	Metrohm Karl Fischer Automated Titrator
Flash Point	D93	Tanka apm-8 Automated Flash PointTester
Pour Point	D97	King CP610 Cloud and Pour Point Bath
Distillation	D86	Anton Parr ADU 5 Automated Distillation Unit
Cetane Index	D976	Calculation
API Gravity	D4052	Anton Parr DMA 48 Density Meter
Sulfur	D4294	Horiba SLFA-2800
Sulphated Ash	D874	Evaporating Dish, Crucible

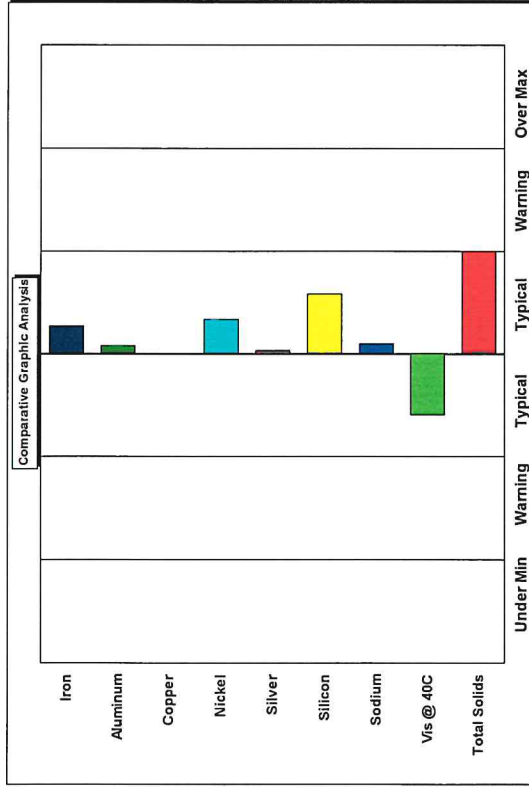
SGS is proposing our Chicago area lab. A significant capital expenditure of over \$700K USD is currently in process, and expected to be completed Q4 2018. This investment includes upgrading to the global LIMS system, facility upgrades and automated equipment to increase efficiency, redundancy and laboratory capacity.

SGS recommends utilizing FedEx or UPS services for transporting samples back to our Chicago area lab. A padded mailer or a FedEx shipping label will be provided for your shipping convenience.

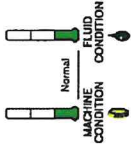
<p>Unit Type : ZF HP590 Transmission (ZF_TR002)</p> <p>Oil Type : Chevron Delo 400 LE SAE 15W-40 (CH_007) P.O. : P87872</p> <p>Sampled : 03/09/2016 Shipped : 03/20/2016 Received: 03/21/2016</p>	<p>ID: T1258 - Asset# 1092, ZF Transmission HP590</p>	<p>Page 1</p> <p>09/14/2018</p> <p>09:57:31</p> <p>Printed: 03/23/2016</p>
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NORMAL: Sample data is satisfactory. No action is required at this time.

RECOMMENDATION: Resample at your regular interval.



Lab Number Sample Date	Minimum	Maximum	Ref Oil 02/24/2010	V1372848 03/09/2016
Unit Time (Ml)				472095
Fluid Time (Ml)				18568
Metals				
Iron ppm		200	2	40
Aluminum ppm		150	2	8
Chromium ppm		4	<1	<1
Copper ppm		500	<1	1
Lead ppm		4	<1	<1
Tin ppm		4	<1	<1
Nickel ppm		4	<1	1
Silver ppm		4.5	<0.1	0.1
Silicon ppm		20	6	7
Sodium ppm		50	3	3
Boron ppm			637	692
Zinc ppm			1267	1199
Phosphorus ppm			1315	1171
Calcium ppm			1790	1659
Magnesium ppm			423	438
Barium ppm			<1	4
Molybdenum ppm			100	102
Potassium ppm		50	<3	<3
Water Percent %		0.20		<0.10
Vis @ 40 C mm2/s	64.6	133.4		81.4
Total Solids %		1.0		0.1



Lab Number : C1165026

Herguth Laboratories, Inc.
101 Corporate Place

Vallejo, CA 94590-6968

ID: 11399575E - Walgreens, Cummins NTA855-G2 Diesel Engine

W/O 2082388

Unit Type : Cummins NTA-855-G Engine, Diesel (CM_DE026)

Oil Type : Mobil Fleet SAE 15W-40 -(Mineral) (MO_102) P.O. : PREPAID 345157

Sampled : 12/04/2017 Shipped : 12/12/2017 Received: 12/13/2017 Printed: 12/16/2017

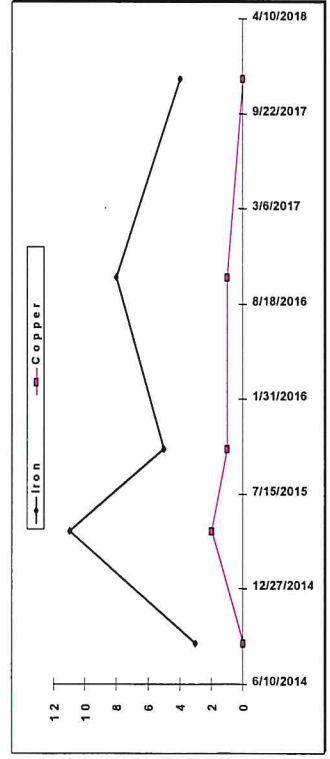
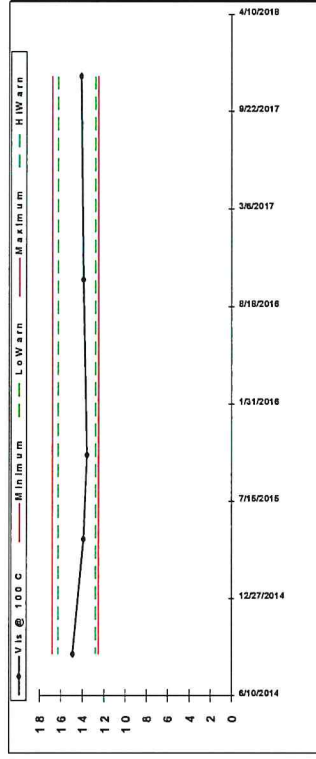
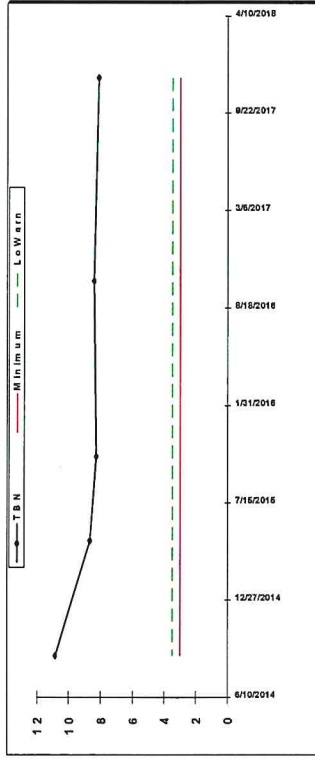
NORMAL: Sample data is satisfactory. No action is required at this time.

RECOMMENDATION: Resample at your regular interval.

ISO 9001:2008 Certified and ISO/IEC 17025:2005 Accredited

Lab Number	Sample Date	Minimum	Maximum	Ref Oil	C1090245	C1104306	C1114144	C1134276	C1165026
Unit Time (HR)				10/06/2016	09/03/2014	04/28/2015	10/19/2015	10/13/2016	12/04/2017
Fluid Time (HR)									
Vis @ 100 C mm2/	12.50		16.80	14.28	14.96	13.91	13.58	13.90	14.13
TBN mg KOH/g	3.00			8.98	10.84	8.66	8.28	8.41	8.13
FTIR									
Soot % wt.		3.00		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Oxidation Abs/cm		30		<2	3	3	<2	<2	<2
Water FTIR % Vol		0.20		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sulfination Abs/		30		<2	12	7	<2	<2	2
Fuel % Vol		2.5		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Glycol % Vol		0.20		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Metals									
Iron ppm		30		1	3	**11	5	8	4
Aluminum ppm		4		<1	2	1	<1	1	1
Chromium ppm		4		<1	<1	<1	<1	<1	<1
Copper ppm		11		<1	<1	2	1	1	<1
Lead ppm		4		<1	1	1	1	1	<1
Tin ppm		4		1	<1	1	<1	<1	<1
Nickel ppm		4		<1	<1	<1	<1	<1	<1
Silver ppm		4.5		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Antimony ppm				1	<1	<1	<1	<1	<1
Silicon ppm		20		3	4	8	6	6	4
Sodium ppm		50		<2	8	10	<2	7	9
Boron ppm				5	102	*5	*4	*5	3
Zinc ppm				1368	1608	1649	1309	1480	1355
Phosphorus ppm				1202	1452	1295	1022	1028	1159
Calcium ppm				1215	2933	*1528	*1211	*1396	1223
Magnesium ppm				1003	584	871	702	*774	947
Barium ppm				<1	<1	<1	<1	<1	<1
Molybdenum ppm				71	51	53	43	52	67
Potassium ppm		50		<3	<3	<3	<3	<3	<3

* = exceeds Caution limit ** = exceeds Alarm limit





Jefferson Parish Department of Public Works
Quotation Date: September 14, 2018

We are pleased to submit the enclosed bid for Jefferson Parish Department of Public Works. We believe our proposal offers you an exceptional combination of capability, experience, and technical expertise to meet your analysis needs.

As the enclosed proposal shows, our experience includes analysis and evaluation of used oil and transmission fluids. Each member of the SGS NA team has the experience and the dedication to provide you with the services requested in this proposal.

In addition, Jefferson Parish Department of Public Works can utilize our technical expertise for issues not addressed in the proposal. With years of experience, SGS NA offers tribology, failure analysis, SEM/EDX analysis, training, Internet access to data, sampling supplies, and consulting, making us your comprehensive, full service laboratory.

We are committed to providing high quality, efficient, and cost-effective laboratory analysis services associated with this proposal. We look forward to working with Jefferson Parish Department of Public Works.

Sincerely,

A handwritten signature in black ink that reads 'Marta Thompson'. The signature is written in a cursive, flowing style.

Marta Thompson
Sales & Marketing Coordinator

Lube Oil Analysis for the Jefferson Parish Department of Public Works

Quotation

From

SGS North America

Date

September 14, 2018

SGS NA Laboratories can help Jefferson Parish Department of Public Works meet and exceed the program goals listed in the scope of work.

SGS North America understands your need for a fast, convenient, and efficient oil analysis program. Our goal for the term of the contract is to provide superior service to Jefferson Parish Department of Public Works that will keep your equipment running on schedule. We understand your requested scope of work associated with this proposal and are dedicated to meeting the terms listed.

Fast – SGS North America is fully automated with state-of-the-art equipment to meet your quoted turnaround time. Modern, automated equipment allows our laboratory technicians to schedule the work-load appropriately so that you get results on time. We also take pride in the quality of the data we provide to our clients. Any data that does not trend is re-checked prior to it being reported to Jefferson Parish Department of Public Works. You should be assured that Jefferson Parish Department of Public Works is getting the most reliable and accurate data available in the industry today.

Convenient - During the course of this contract, SGS NA will provide Jefferson Parish Department of Public Works with everything needed for this oil analysis contract including all the necessary sampling supplies to take the samples and return them for testing. Our Evaluations and Customer Service staff are here to answer your questions and support your staff as needed, making doing business between SGS North America and Jefferson Parish Department of Public Works easy. We are known in the industry for our Customer Service and customized data programs to help assist in you meeting your goals.

Efficient – Jefferson Parish Department of Public Works has access to all of our resources, i.e.; equipment, knowledgeable staff, full line of testing capabilities, quick turn around time, rechecks of data, and with the knowledge oil types and equipment. Jefferson Parish Department of Public Works can be assured that every element of our business is helping you achieve your goals.

SOFIA - SOFIA is your management information system. Data is live and can be accessible anywhere you are. It allows setting up equipment and route lists, printing bottles labels and checking status of reports. Once samples are received, you can track your data, print your data and trend, graph and export your data. SOFIA goes above and beyond your normal internet access program. SOFIA also includes monthly and yearly summary reports. SOFIA also has the capability of providing statistical data. SOFIA was designed to be your partner in your Condition Monitoring process. You will have access to logon and access your data at no additional charge.

SECTION 1 -PROGRAM

Data Analysis

Reports will be distributed as per the bid specifications. Our email service can be provided and sends the user a PDF copy of the report. We also have available, SOFIA- our Internet Lubrication Analysis Management program is a web-enabled method for the user to access his reports. By logging on to the website, the users can view reports in PDF format for the last sample of his equipment (or sub accounts). SOFIA allows maintenance of equipment information, including manufacturer lubricant, sampling schedules, and any other pertinent facts. Label route lists can be printed to collect samples based on defined schedules by the user. A message can also be sent to the laboratory regarding information, a technical question, or any other communication desired. Setup can be made easy by the use of an Excel spreadsheet of your current units imported in our system. SOFIA will be provided at no charge.

Email notifications are available for immediate alert of abnormal sample results.

Contact Information

SGS NA may be reached by telephone five (5) days a week, 6:00 am to 5:00 pm PST at (707) 554-4611 or (800) 645-5227. Emergency after hour number is 707-552-1221. Or Linda Perry (707) 812-3602

Program and Branch Manager	Billy Mason	x3023
Branch Manager - Contracts and Pricing	Linda Perry	x3012
Customer Service, Sampling Supply Orders	Marta Thompson	x3045
Technical Services Manager	Nuno Moreira	x3048
Accounting/Invoicing	Tracy Sessions	x3002
Special Project Manager	Mindy Villalba	x3010
Evaluator	Bobby Licu	x3050

Staff is available to answer calls on invoicing, order status, sample status, etc.

All methods are performed by the latest published ASTM revision or Industry accepted modified standards

Additional Analysis Capabilities

SGS NA has found that industrial customers demand equipment condition monitoring, as well as oil condition monitoring from their suppliers. We routinely structure test packages to include, both oil and equipment condition monitoring analytical methods.

SGS NA current performs an excess of over 200 analytical methods and procedures.

Terms

SGS NA Laboratories, Inc. standard payment terms are net 30 days. Please make purchase order payable to SGS NA. We also accept Visa, Mastercard, and American Express.

SECTION 2- QUALITY**ISO 17025**

SGS North America holds ISO 17025 accreditation from Perry Johnson Laboratory Accreditation. The ISO approval recognizes the company's successful adherence to ISO quality assurance standards in its business processes, including laboratory testing, process development, management information and customer service.

Dedication to providing our clientele with reliable, high quality data is a primary objective of the entire SGS NA team. SGS NA management believes that quality assurance is not just a management function, but that every individual in the company is responsible for assuring the quality of SGS NA products. Satisfying customer needs and expectations while fostering teamwork is at the core of our quality system.

SGS NA participates in numerous of outside performance evaluations (Round Robins) with ASTM, Exxon Research and Engineering Company, and Chevron Research and Technology Company.

Professional References

Mr. Keith Nunn
Golden Gate Transit
1011 Andersen Drive
San Rafael, CA 94901
Phone: (415) 257-4460
Date of Performance: 2006 - Present

John Tansek
Fermi NPP
6400 N Dixie Hwy
Newport, MI 48166
Phone: (734) 586-5388
Date of Performance: 2006 - Present

David Myers
Vestas Wind Systems
1417 NW Everett St.
Portland, OR 97209
Phone: (503) 265-6898
Date of Performance: 2003 – Present

Professional Profiles

WILLIAM MASON Branch Manager – Naperville SGS North America

Mr. Mason joined SGS NA in October 2017 at Branch Manager for SGS in Naperville, Illinois. Billy has over 20 years of experience in condition monitoring having worked for a major commercial laboratory group as well as operating a fluids analysis laboratory for a Caterpillar dealer.

Education: Billy has a Bachelor's degree and MBA from Kennesaw State University.

LINDA PERRY Branch Manager - Vallejo SGS North America

Ms. Perry joined SGS NA in March, 1992 as a Customer Service Representative. From 1994 to 2000 she also took on the added responsibility as our Purchasing Agent. In 2000 she was promoted to her current position as Customer Service Manager where she ensures complete customer satisfaction in terms of the service provided. Linda provides the liaison between the customer request, whether verbal or written, and the departments at SGS NA. She also shares the responsibility for support of existing sales and marketing efforts, for development of new sales, and for development and implementation of new marketing programs. She is depended on for informing and generating new sales as well as informing existing client of new testing and other capabilities that they may require.

Education: Linda has an Associates Degree in Accounting from ICS in Pennsylvania and a Bachelors of Science in marketing from University of Phoenix along with a Master in Business Administration.

Job Experience: Linda spent several years in the insurance industry and became licensed as an Insurance Solicitor before joining SGS NA.

MARTA THOMPSON Sales & Marketing Coordinator SGS North America

Ms. Thompson joined SGS in April, 2013. Marta was brought in to assist Linda with sales responsibilities and customer satisfaction. Marta works hand in hand with Linda to support existing sales, new sales and supporting customers with any additional needs they may have.

Education: Marta has a Bachelors of Science in business, with a specialty in Marketing, from San Diego State University.

Job Experience: Prior to joining SGS NA, Marta worked in the advertising industry in San Diego, CA before moving on as an account manager in the office furniture industry in Northern California.

MINDY L. VILLALBA
Special Projects Manager
SGS North America

For the past few years SGS NA has been enhancing and expanding its research and special projects department. Ms. Villalba joined the SGS NA team in 2005, and as Special Projects Manager, she is responsible for solving customer problems for a variety of products and system types. She coordinates with the laboratory regarding the testing, investigations, and technical report writing. Mindy is also an integral part of the team that provides sales support, customer satisfaction, and data evaluation for clientele on all types of lubricated equipment, requiring an extensive knowledge of tribology, laboratory testing, equipment application, and predictive/proactive maintenance programs.

Education: Mindy obtained a BS degree in Chemical Engineering from Colorado State University (1999). She is currently a D02 Petroleum Products and Lubricants technical committee member and Secretary for the Turbine Oils subcommittee within the American Society of Testing and Materials (ASTM) and an active participant within the Society of Tribologists and Lubrication Engineers (STLE) local chapter.

Job Experience: Mindy worked as an Engineer/Research Engineer after joining Southwest Research Institute® (SwRI[®]) in November, 1999. At SwRI[®] Mindy was involved in the development, testing, and analysis of automotive fuel and lubricant filtration. Her primary responsibility included managing a cooperative research program to investigate water separation properties within current fuels. She used laboratory testing, experimentation, field analysis and concurrent engineering to address a comprehensive range of filtration-related problems. Other areas of focus included: standardized and custom-designed fuel and lubricant filtration testing; particle counting and surface chemistry evaluation; filtration test method development; and field analysis and contamination assessment.

BOBBY LICU
Evaluator Manager
SGS North America

Responsibilities: Mr. Licu is responsible for the evaluation of samples from the laboratory. Other responsibilities include, but are not limited to, quality checking, client satisfaction, and sales support. He assists in the activities of engineers, technicians, and data processing clerks to achieve maximum productivity and maintain on-time performance as stated in SGS company objectives. He provides data evaluation for clientele on all types of lubricated equipment, requiring an extensive knowledge of tribology, laboratory testing, equipment application, and predictive/proactive maintenance programs.

Education: Bobby has a BSME degree from De La Salle University in Manila, Philippines. He is a Certified Lubrication Specialist (CLS), since 1997, with Certificate Number 30954 and a current member of the Society of Tribologists and Lubrication Engineers (STLE). He was a former Chairman of STLE Northern California Section.

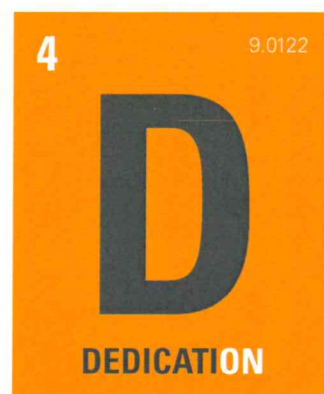
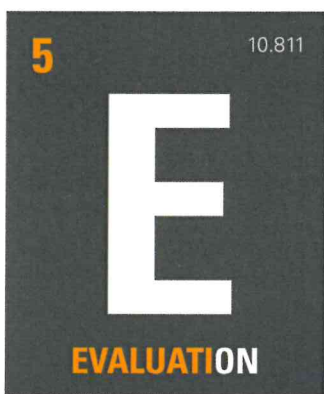
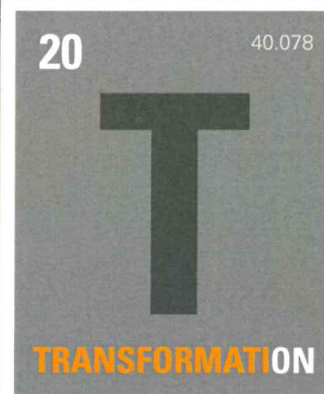
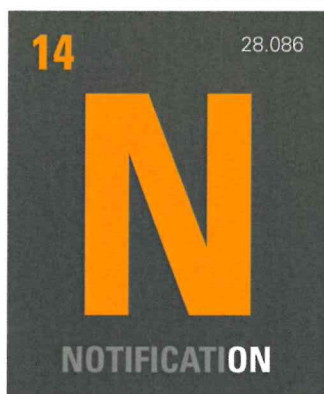
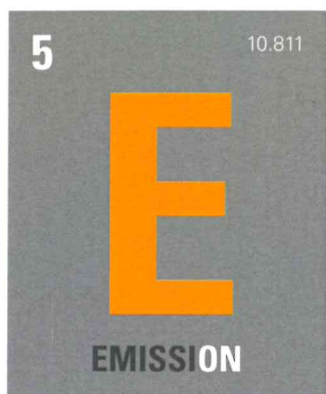
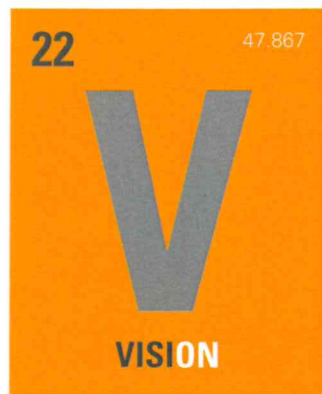
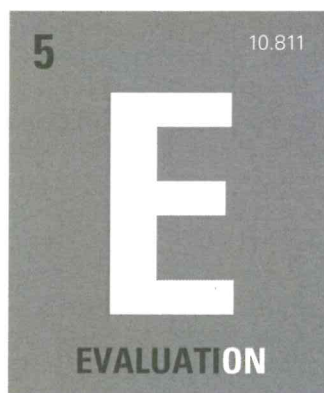
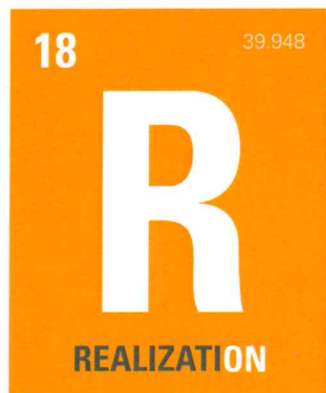
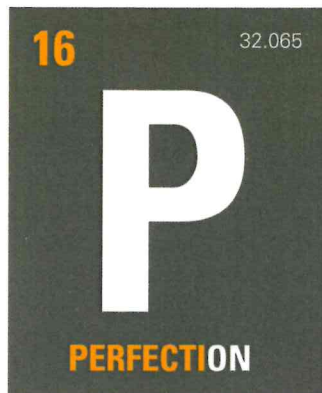
Job Experience: Bobby worked at Analysts, Inc., an oil analysis laboratory, for 15 years as Senior Data Analyst and Quality Assurance Administrator, doing similar job functions as this current position. He was also employed for more than 11 years at Caltex (Phils.) Inc. as a Lubrication Engineer, performing Lubrication Surveys, Lube recommendations, seminars and lubricant analysis and interpretation.

NUNO MOREIRA
Technical Services Manager
SGS North America.

Responsibilities: As the Quality Assurance Manager, Mr. Moreira is responsible for all aspects of the 10CFR50 Appendix B Nuclear Quality Assurance Program, ISO 17025:2005 and ISO 9001:2008 quality programs. Nuno joined SGS NA in May 2000 as a Laboratory Technician and since then he achieved various significant rolls within the company. In the laboratory, he earned positions such as laboratory specialist and laboratory lead technician. Furthermore, he aided developing and managed the Ferrography program at SGS NA. In 2004, he was given the opportunity to join the evaluations team as a junior analyst. Later in 2005, he earned the trust from management to hold the evaluations manager position. In this position he was responsible for the sample log-in department and the evaluators who analyze data and generate final reports.

Education: Nuno holds a degree in Mechanical Engineering (BSME) from the California State University at Sacramento (CSUS). He is currently pursuing a Master's degree in Mechanical Engineering from CSUS as well. He is a member of the Engineering Honor Society Tau Beta Pi (TBP) and America Society of Mechanical Engineers. Recently, Nuno has obtained the Lead Auditor Certification for ISO 9001:2008

Job Experience: Nuno has 12 years of experience in the chemical and petroleum industry. He worked in laboratory as technician for 3 years and 7 years as Data Analyst and Evaluation Manager.



OIL AND MACHINE CONDITION MONITORING - SGS HERGUTH LABORATORIES

HERGUTH
LABORATORIES





HERGUTH LABORATORIES

SGS Herguth specializes in lubrication and machine condition monitoring services providing related predictive maintenance programs. Founded in January 1980, the company is based on the premise that high quality testing and rapid turn-around time gives the client a value hard to find in the market place.

SGS Herguth maintains a global client base, receiving and processing samples from around the world. We operate a modern 12,500 square foot facility located in Vallejo, CA and 10,000 square foot facility in Naperville, IL.

WELCOME TO SGS HERGUTH LABORATORIES

In 1980, Herguth Laboratories was founded to address what were seen as fundamental problems in the availability of high quality, sophisticated analysis for users in the areas of lubrication analysis, equipment condition monitoring and rapid solutions to tribological problems.

The company was designed from the ground up by challenging industry norms and delivering superior commitment to service and sophistication of analysis and expertise, setting a new standard for lubrication analysis, consulting and technology delivery, and changing the way people resolved lubrication and machine problems.

TESTING, ANALYSIS AND CONSULTING SERVICES

- New and used oil analysis
- Tribology studies
- Refrigerant Analysis
- Condition Monitoring Training
- Applied research of lubricants, greases
- Additives and petroleum fuels

CLIENTS SERVED

- Agriculture Equipment
- Nuclear Power plants
- Commercial Aviation
- Oil Company Research
- Building Maintenance Companies
- Oil Refineries
- Chemical and Processing Plants
- Petroleum Wholesalers
- Construction Companies
- Fossil Power Generation
- Consultants, Engineers, Labs
- Hydroelectric Plants
- Manufacturing Plants
- Public Works Departments
- Marine Fleets
- Water Treatment Plants
- Mining Operations
- Wind Power Companies

SUPERIOR ANALYTICAL SERVICES FOR OUR CLIENTS

Lubrication analysis is generally performed and delivered within the confines of what are called "oil analysis programs." Since day one, we've committed to holding ourselves accountable for all of our clients' lubrication and tribology needs, not just their oil analysis program. We deliver sophisticated, solution oriented answers to the complex problems our clients face in the areas of lubrication and business operation. To meet this commitment, we created a research associate program drawing expertise from around the nation to resolve our clients' problems rapidly with the most advanced testing capabilities of any independent oil analysis laboratory in the world today.

ENDURING VALUES

We understand that to deliver breakthrough results requires a foundation of enduring values. So we recruited people with a common passion for problem solving and built a culture based on four core values:

- Client Satisfaction - through solutions focused delivery and a sense of urgency.
- Honesty and integrity - always acting as independent, professional advocates for our clients.
- Quality - in facilities, test methods, innovations, equipment and solutions
- People - our most important asset are qualified, competent members of our team maintaining a safe, healthy, and environmentally-conscious working-environment.

Our clients confirm that we've gotten this right. They tell us again and again that our culture and people are significant contributors to the success of their initiatives.

CONSTANT INNOVATION

Each step we've taken since 1980 has been to help our clients achieve breakthrough results. We've developed world-class skills and innovative techniques to achieve solutions to lubrication, tribology and related mechanical problems inside their business and throughout the industry. We consistently lead our industry in helping clients use new and existing technologies to find answers to complex lubrication problems.

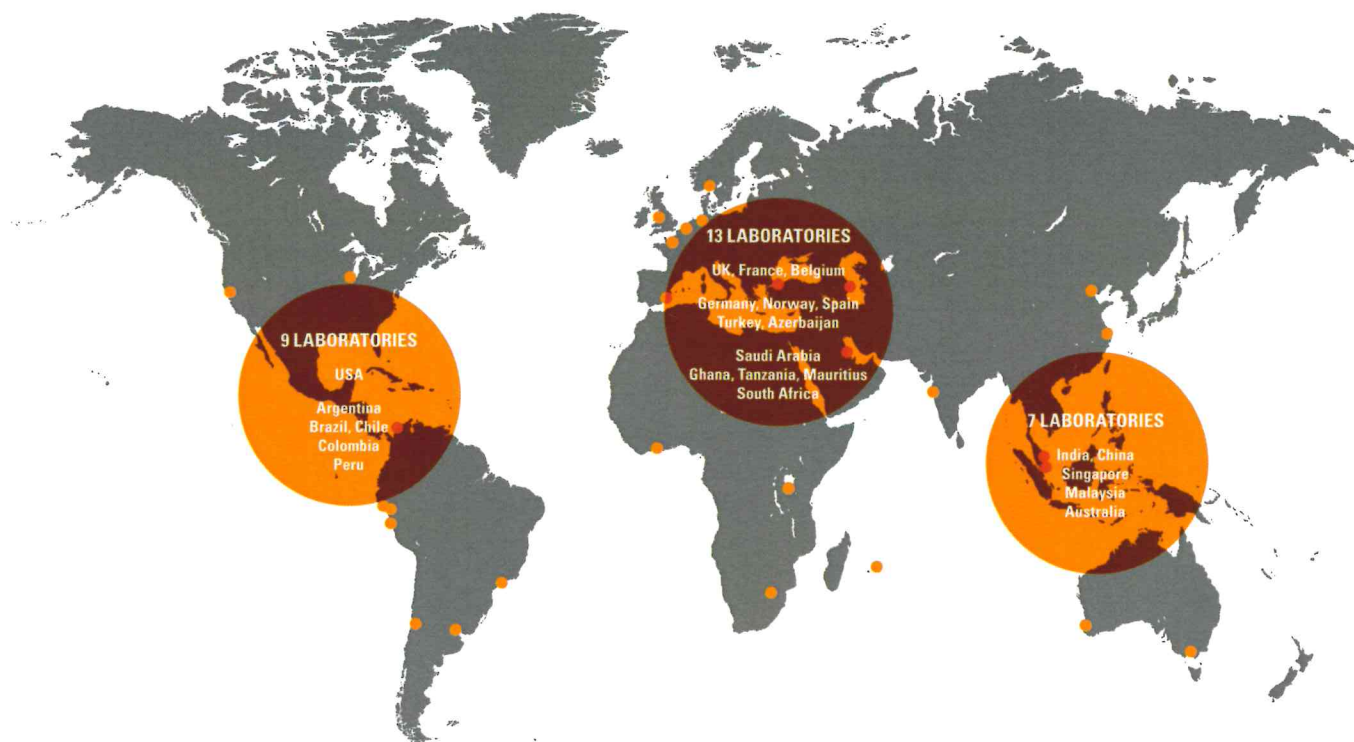
STAYING FOCUSED ON OUR PROMISE

Times may change, but our promise to our clients does not: we will do whatever it takes to deliver the right results, on time and on budget. We value the new and enduring relationships we have with our clients.

SGS HERGUTH LABORATORIES

SGS Herguth Laboratories is the leading Oil Condition Monitoring provider in North America, offering both routine, highly automated analysis and equipment condition's diagnostics as well as non-routine consulting services such as lubrication programs audits, root cause and failure analysis. SGS Herguth Laboratories is the one-stop-shop for all your testing needs in North America and for your global operations, offering high level independent Oil Condition Monitoring solutions to our customers in our 29 lab testing facilities throughout the world.

SGS OIL CONDITION MONITORING WORLD-WIDE SERVICES



WHEN YOU NEED TO BE SURE

SGS is the world's leading inspection, verification, testing and certification company. SGS is recognized as the global benchmark for quality and integrity. With more than 75,000 employees, SGS operates a network of over 1,500 offices and laboratories around the world.

SGS Herguth Laboratories, Inc.

Oil, Gas & Chemicals Services

San Francisco Area

101 Corporate Place, Vallejo, CA 94590, USA

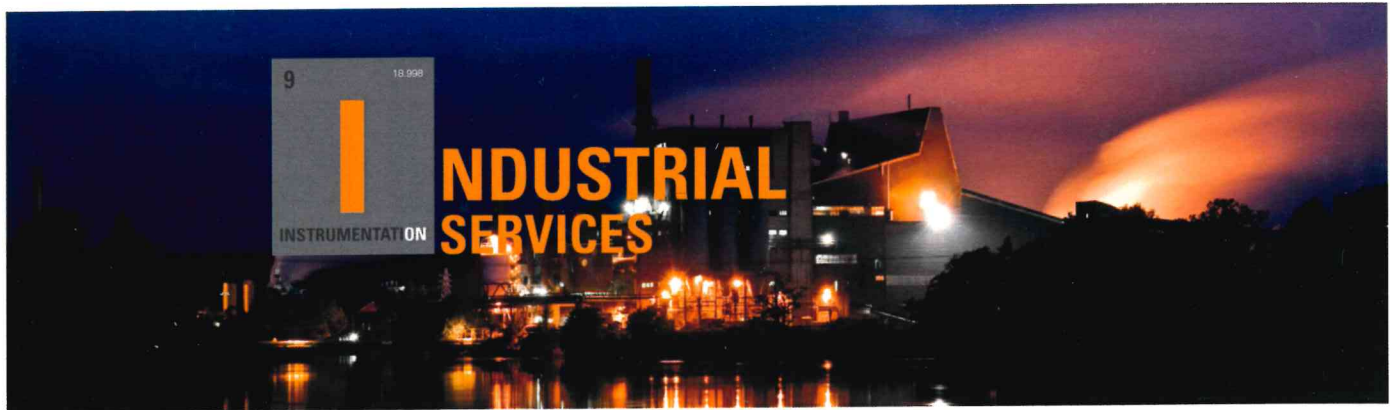
Chicago Area

1600 Shore Road, Suite H, Naperville, IL 60563, USA

Tel: +1 800 645 5227 (OIL-LABS) / +1 707 554 4611

www.sgs.com

www.herguth.com



Since 1980, SGS Herguth has led the industry in high quality innovative condition monitoring analysis for industrial users. As an active member of leading technical societies SGS Herguth works as an advocate for our clients.

DECADES OF EXPERIENCE AND INNOVATION

If a machine contains oil, grease or operates with fuel SGS Herguth is involved with a condition monitoring somewhere on the globe. With 29 condition monitoring laboratories around the world we are the leaders in industry.

SGS Herguth provides custom or tailored testing packages and special analytical services designed for your plant or application.

PREVENTIVE MAINTENANCE

In machinery, the beginnings of breakdown occur hundreds of operating hours before the breakdown itself. When components are misaligned, out of balance, or running with dirty or inadequate lubricant, minute particles of metal are generated as the moving parts start to be in contact.

Oil analysis will detect these microscopic wear particles long before your equipment starts to vibrate, heat up, or show observable signs of wear. Analysis also evaluates the oil's ability to seal, cool, clean, and lubricate as well as detect contamination by water, coolant, other fluids, or particulates.

ORGANIZATION MEMBERSHIPS

- Society of Tribologist and Lubrication Engineers (STLE)
- American Society of Testing and

Materials (ASTM)

- International Organization of Standards (ISO)
- National Lubricating Grease Institute (NLGI)
- American Wind Energy Association (AWEA)

SGS Herguth has maintained a very high level of quality assurance programs to protect your interests. These programs are kept up to date by internal audits and external audits provided by third party vendors.

QUALITY ASSURANCE CERTIFICATIONS

- ISO/IEC 17025 - Testing and Calibration Laboratories
- ISO 9001 - Quality Management Standard
- 10CFR50 Appendix "B" - Quality Assurance for Nuclear Power Plants
- ASTM - Test Procedures
- Radioactive Materials - Handling License
- ANSI - Nuclear Quality Assurance
- MIL - Q9858A Military Quality Program

DEGREEED AND CERTIFIED STAFF

- Chemists
- Mechanical Engineers
- Chemical Engineers
- STLE Certified Lubrication Specialists

STATE OF THE ART TEST METHODS

- Wear Debris & Contamination Analysis for Oil and Grease
 - Plasma Spectroscopy on Acid Dissolved Metals
 - Filter Debris Analysis
 - Direct Reading and Analytical Ferrography
 - Scanning Electron Microscopy with Energy Dispersive Spectroscopy

(SEM/EDS)

- Lubricant Life and Serviceability Evaluations for Oil and Grease
 - Acidity and Viscosity
 - Remaining Antioxidant Level
 - Flender Foam and Air Entrainment Tester
 - ASTM Foam and Air Release Testing
 - Grease Evaluations

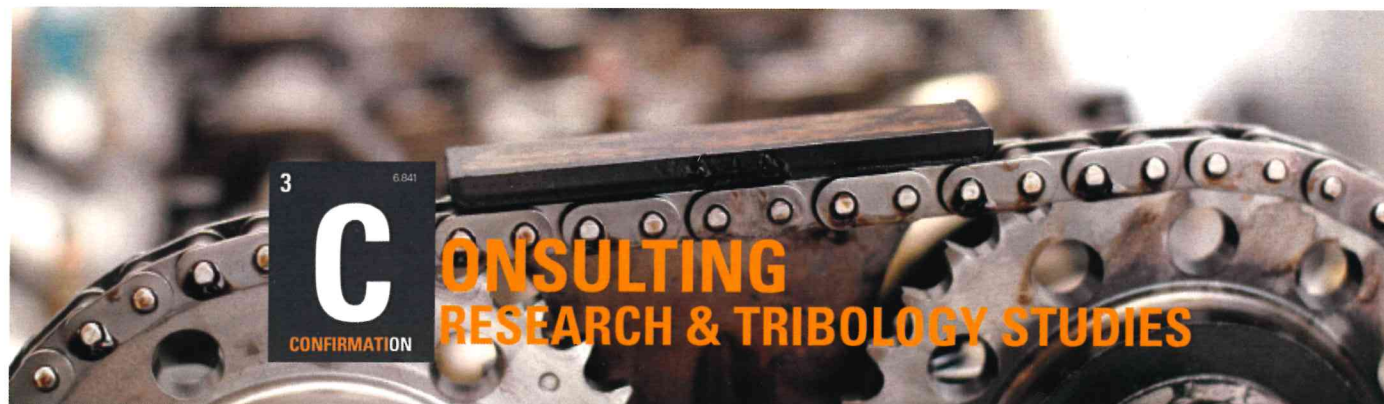
IT'S WHAT WE DO WITH THE DATA THAT COUNTS

Signing on with SGS Herguth will give you access to one of the world's most experienced oil and grease testing laboratories. Our decades of experience and hundreds of thousands of data points available for every possible machine and lubricant combination are used to support your condition monitoring program. Backed up by iLAMP™ our proprietary web based software program, we can pinpoint adverse trend in your equipment and proactively take steps to minimize your costs.

ADVANCED TESTING, FAILURE ANALYSIS AND CONSULTING

Unlike other oil analysis laboratories SGS Herguth is the single source for all of your testing and analysis needs. Hundreds of companies rely on our in-depth testing and research capabilities. Identifying the fundamental source of lubrication related problems quickly and accurately saves our clients million of dollars in needless downtime and expenses.

- Lubrication Performance and Compatibility Studies
- Filter Debris and Deposit Characterizations
- Tribology Studies
- Root Cause Failure Analysis



TRIBOLOGY STUDIES LUBRICATION & MATERIALS

Tribology is defined as, "The science of the mechanisms of friction, lubrication, and wear of interacting surfaces that are in relative motion." A great deal of tribological research is being conducted throughout the world in universities and in private, government, and industrial laboratories. Virtually unheard of twenty years ago, there have been thousands of Tribology papers published since 1990 and the knowledge is disseminated through many technical societies. The reliability of machines steadily improves because of this research.

SGS Herguth Laboratories, Inc. and our Research Associates are committed to maintaining our edge in tribology. Wear, or the undesirable removal of material due

to relative motion, is a large consumer of materials, and shortens the life and reduces the reliability of machines. Friction and wear cost the economies of the world billions of dollars per year.

SGS HERGUTH LABORATORIES PROVIDES ■

- Failures analysis of machine parts
- Analysis of Lubricants, Fuels and Deposits
- Wear Particle Analysis

LEADERSHIP SGS Herguth Laboratories, Inc. takes an active leadership role in applying research to many specialized projects. Called upon by oil company majors, we pursue each case with innovation and initiation, always focused on the ultimate solution.

FAILURE ANALYSIS OF LUBRICATED COMPONENTS

SGS Herguth has complete resources available for Optical or Scanning Electron Microscopy, Photomicrography, Chemical Testing and Analysis by ICP, FT-IR, SEM/EDX, XRD or AES. We provide specific recommendations to help you solve your tribology problems.

Beyond the oil company projects and our tribological studies, SGS Herguth's research and development arm is often called upon to set test programs to determine lubricant and grease specifications, including amounts of additives and other variables that have an operational impact on equipment and machinery. Our applied research team can set up and implement procedures to meet your specific requirements and program goals.

AVAILABLE TRIBOMETER TEST MACHINES AND METHODS

ASTM G-99 PIN-ON-DISK - STANDARD TEST METHOD FOR WEAR TESTING WITH A PIN-ON-DISK APPARATUS.	HIGH FREQUENCY RECIPROCATING RIG (HFRR)	PIN ON VEE BLOCK
<p>The pin-on-disk tribometer is a laboratory apparatus for measuring the friction and wear properties of materials and lubricants under desired conditions of load, speed and temperature. The results provide information about the coefficient of friction, wear and scuff properties of a lubricant or coated surface. The operating conditions can be made to simulate, as far as possible, those in a practical machine. The pure sliding in this test causes boundary lubrication, where surface-to-surface contact occurs and the lubricant additive chemistry and friction can be measured.</p>	<p>The High Frequency Reciprocating Rig (HFRR) is a reciprocating friction and wear test system which provides repeatable assessment of the performance of fuels and lubricants. It is particularly suitable for wear testing diesel fuels and for boundary friction measurements of engine oils, greases and other compounds. It conforms to ASTM D6079, ASTM D7688, CEC F-06-A, ISO 12156, EN 590, JPI-5S-50 and IP 450.</p>	<p>The Pin On Vee Block machine allows you to evaluate friction, wear and Extreme Pressure properties of lubricants and materials. It is capable of testing materials, dry film bonded lubricant coatings, surface hardening coatings, fluid lubricants and additive packages.</p> <p><i>Test methods: ASTM D2625, ASTM D2670, ASTM D3233, ASTM D5620, FED-STD-791/3807.1, FED-STD-791/3812.1, Chrysler Corporation 461-C-84-01 / 461-C-85-02 / 461-C-84-03, Ford Motor Company FMC-BJ1-1, IP 241</i></p>



As a historical leading provider of innovative services for the Nuclear Industry, SGS Herguth is dedicated to propose and implement programs that will provide a peace of mind to the Nuclear Power stations as well as the general public, allowing constant monitoring of the quality of their lubricants and lubricated equipments across the plants.

Since 1986, SGS Herguth has been working with United States nuclear power generation stations, providing the most stringent quality systems in the industry, thus anticipating the Electric Power Research Institute (EPRI) and Nuclear Research Committee (NRC) guidelines that followed in 1988-1989 to reinforce lubricant dedication programs. We were the first commercial lubricant testing laboratory in the United States to provide a Nuclear Quality Assurance program to address these issues. Still today, SGS Herguth provides 10CFR50 Appendix "B" quality testing services for new product dedication and used lubricating oils / grease analysis.

PRODUCT DEDICATION

United States nuclear power generation stations have relied on SGS Herguth Laboratories for over 25 years. We have provided 10CFR50 quality testing services for new product dedication.

- Greases
- Diesel Fuels
- Lubricating Oils
- Markers, Tapes and Sealants

RADIOLOGICAL LICENSE AND IN-SERVICE MONITORING

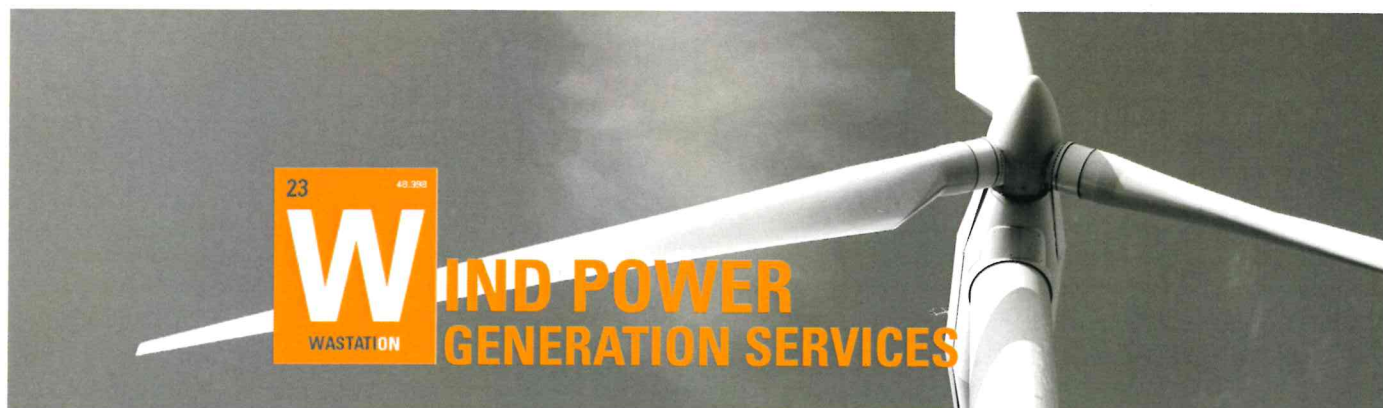
Once SGS Herguth has verified the integrity of the delivered products we go on to monitor lubrication and diesel fuels throughout the plants from BWR's to PWR's. Licensed to receive and testing radioactive material SGS Herguth is prepared to meet all of your testing needs.

- Emergency Diesel Generators
- Pump Oils and Grease
- MOV Greases
- Snubber Oil
- Turbine Oils

ADVANCED TESTING, FAILURE ANALYSIS AND CONSULTING

SGS Herguth is the single source for all of your testing and analysis needs. Hundreds of companies rely on our in-depth testing and research capabilities. Identifying the fundamental source of a lubrication or fuel related problem quickly and accurately save our clients millions of dollars in needless downtime and expense.

- Lubrication Performance and Compatibility Studies
- Filter Debris and Deposit Characterizations
- Tribology Studies
- Root Cause Failure Analysis



WIND POWER ENERGY – THE EARLY YEARS

In 1985 about half of the wind power energy generated in the United States was generated from the Altamont Pass in Northern California^{Ref. 1}. Our first laboratory, founded in 1980, was located 50 miles from "The Altamont Pass." From the beginning, SGS Herguth was there!

The wind industry was held together by dedicated wind farm technicians and supported by SGS Herguth. Without these dedicated technicians and support of knowledgeable gear experts the wind industry may have not grown to the level it is today.

Early on SGS Herguth has been a contributor to the "ANSI/AGMA/AWEA Standard 6006-a03, Standard for Design and Specification of Gearboxes for Wind Turbines," Approved - January 9, 2004. This standard being constantly updated to represent the technical evolutions of modern turbine systems, SGS Herguth, as a proud member and contributor of the National Renewable Energy Laboratory, Gearbox Reliability Collaborative (NREL/GRC), drives the continuous modernization of its lubricant analysis part to reflect the latest technological developments in the industry.

STATE-OF-THE-ART TESTING

In the early days of wind energy development, wear debris and contamination were measured in terms of handfuls of debris as opposed to part-per-million (ppm). Following the increase in size and sophistication of gearboxes, the analysis and interpretation tools became more accurate and precise. State-of-the-art test methods of testing and analysis are now employed at SGS Herguth to ensure early identification of wear debris and contaminants:

- Wear Debris & Contamination Analysis for Oil and Grease
 - Plasma Spectroscopy on Acid Dissolved Metals
 - Filter Debris Analysis
 - Direct Reading and Analytical Ferrography
 - Scanning Electron Microscopy with Energy Dispersive Spectroscopy (SEM/EDS)
- Lubricant Life and Serviceability Evaluations for Oil and Grease
 - Acidity and Viscosity
 - Remaining Antioxidant Levels
 - Flender Foam and Air Entrainment Tester
 - ASTM Foam and Air Release Testing
 - Grease Evaluations

IT'S WHAT WE DO WITH THE DATA THAT COUNTS

Signing on with SGS Herguth will give you access to one of the world's most experienced wind oil and grease testing laboratories. Our decades of experience and hundreds of thousands of data points available for every possible combination of gearbox and oil are used to support your condition monitoring program. Backed up by iLAMP™ our proprietary web based software program, we can pinpoint adverse trend in your equipment and proactively take steps to minimize your costs.

ADVANCED TESTING, FAILURE ANALYSIS AND CONSULTING

Unlike other oil analysis laboratories SGS Herguth is the single source for all of your testing and analysis needs. Hundreds of companies rely on our in-depth testing and research capabilities. Identifying the fundamental source of a lubrication related problem quickly and accurately saves our clients million of dollars in needless downtime and expense.

- Lubrication Performance and Compatibility Studies
- Filter Debris and Deposit Characterizations
- Tribology Studies
- Root Cause Failure Analysis

¹. The Wind Farms of the Altamont Pass Area - Annual Review of Energy, Vol. 12: 145-183 (Volume publication date November 1987)

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WHEN YOU NEED TO BE SURE

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