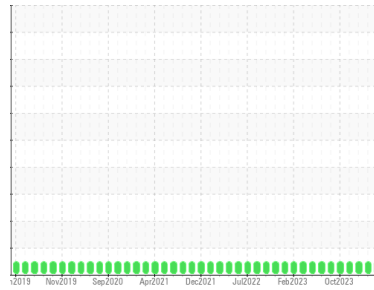




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
BRIAN RAFFERTY
 Machine Id
[BRIAN RAFFERTY] 004 566616-4
 Component
Port Reduction Gear
 Fluid
SCHAEFFER XL 150 (135 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	MW0062804	MW0062788	MW0055653
Sample Date	Client Info	01 Apr 2024	01 Feb 2024	01 Dec 2023
Machine Age	hrs	29999	28536	27119
Oil Age	hrs	29999	28536	27119
Oil Changed	Client Info	Not Changed	Not Changd	Not Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >150	46	104	109
Chromium	ppm ASTM D5185m >10	0	<1	<1
Nickel	ppm ASTM D5185m >10	0	0	<1
Titanium	ppm ASTM D5185m	<1	<1	<1
Silver	ppm ASTM D5185m	0	0	0
Aluminum	ppm ASTM D5185m >25	16	15	17
Lead	ppm ASTM D5185m >100	0	<1	<1
Copper	ppm ASTM D5185m >50	38	36	37
Tin	ppm ASTM D5185m >10	<1	0	0
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	12	1	9
Barium	ppm ASTM D5185m	<1	0	0
Molybdenum	ppm ASTM D5185m	281	232	247
Manganese	ppm ASTM D5185m	<1	1	1
Magnesium	ppm ASTM D5185m	2	0	4
Calcium	ppm ASTM D5185m	70	45	52
Phosphorus	ppm ASTM D5185m	700	670	702
Zinc	ppm ASTM D5185m	42	50	44
Sulfur	ppm ASTM D5185m	22330	17377	18161

CONTAMINANTS

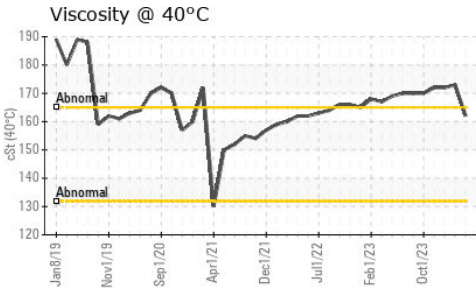
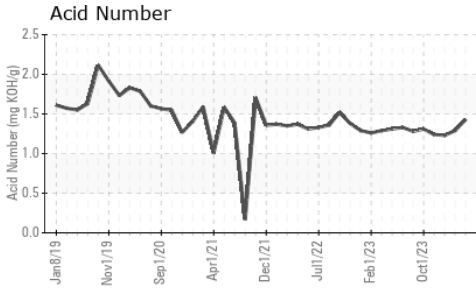
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	18	21	22
Sodium	ppm ASTM D5185m	8	9	9
Potassium	ppm ASTM D5185m >20	0	0	3

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	1.43	1.29	1.23



OIL ANALYSIS REPORT



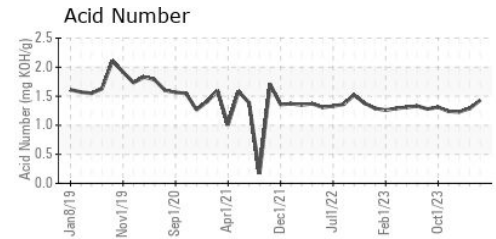
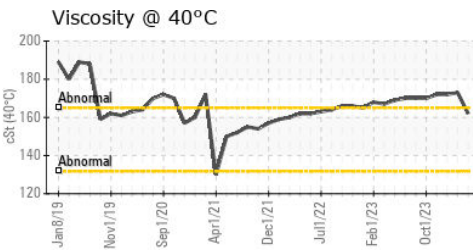
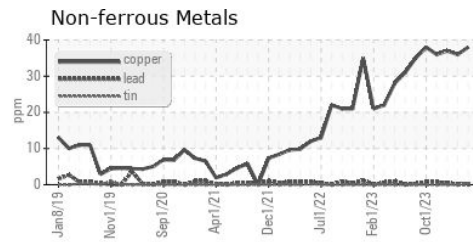
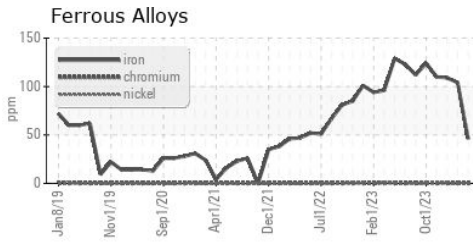
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	162	173	172

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0062804
Lab Number : 06142437
Unique Number : 10967245
Test Package : MAR 2

Received : 08 Apr 2024
Tested : 09 Apr 2024
Diagnosed : 09 Apr 2024 - Wes Davis

INGRAM BARGE
 900 S 3RD ST
 PADUCAH, KY
 US 42003

Contact: RANDAL KEEN
 randal.keen@ingrambarga.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (615)695-3697