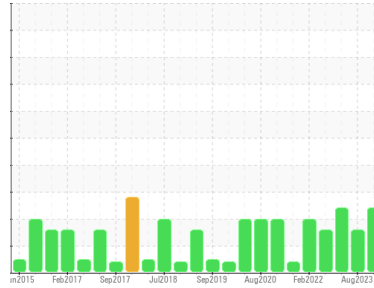




OIL ANALYSIS REPORT

Sample Rating Trend



Area
OKLAHOMA/3/EG - TRUCK-OFF-HWY-HEAVY HAUL
Machine Id
69.02 [OKLAHOMA^3^EG - TRUCK-OFF-HWY-HEAVY HAUL]
Component
Hydraulic System
Fluid
MOBIL MOBILTRANS AST 30 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal.

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		WC0886940	WC0834069	WC0778277
Sample Date	Client Info		31 Jan 2024	05 Aug 2023	28 Feb 2023
Machine Age	hrs	Client Info	23455	22584	21769
Oil Age	hrs	Client Info	21084	21084	21769
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

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	>20	11	10	9
Chromium	ppm	ASTM D5185m	>10	2	2	1
Nickel	ppm	ASTM D5185m	>10	9	8	6
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>10	2	5	4
Lead	ppm	ASTM D5185m	>10	<1	<1	<1
Copper	ppm	ASTM D5185m	>75	3	3	2
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		66	96	85
Barium	ppm	ASTM D5185m		5	1	0
Molybdenum	ppm	ASTM D5185m		2	<1	1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		20	23	17
Calcium	ppm	ASTM D5185m		3086	2870	3234
Phosphorus	ppm	ASTM D5185m		965	915	1050
Zinc	ppm	ASTM D5185m		1231	1131	1285
Sulfur	ppm	ASTM D5185m		4708	4233	4017

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	▲ 24	▲ 29	▲ 26
Sodium	ppm	ASTM D5185m		0	4	2
Potassium	ppm	ASTM D5185m	>20	3	1	2

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		45409	41778	53498
Particles >6µm	ASTM D7647	>2500	▲ 3107	1997	▲ 5083
Particles >14µm	ASTM D7647	>640	29	88	43
Particles >21µm	ASTM D7647	>160	5	17	4
Particles >38µm	ASTM D7647	>40	0	0	1
Particles >71µm	ASTM D7647	>10	0	0	1
Oil Cleanliness	ISO 4406 (c)	>--/18/16	▲ 23/19/12	23/18/14	▲ 23/20/13

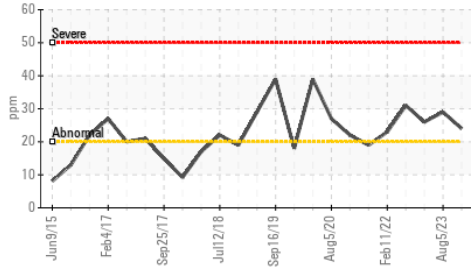
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.37	0.76	0.972

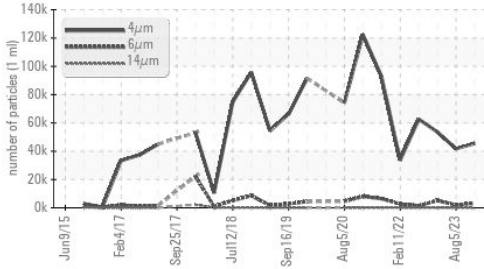


OIL ANALYSIS REPORT

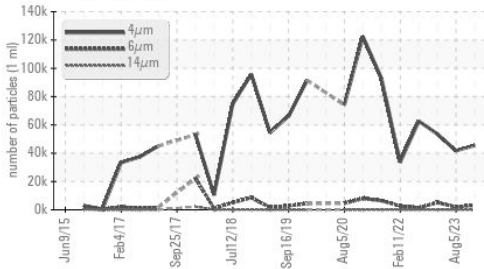
▲ Silicon (ppm)



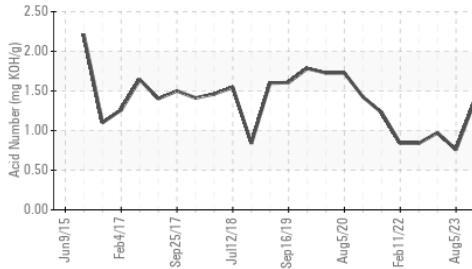
▲ Particle Trend



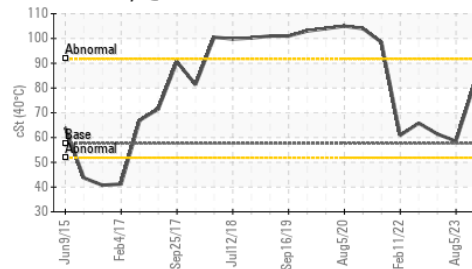
▲ Particle Trend



Acid Number



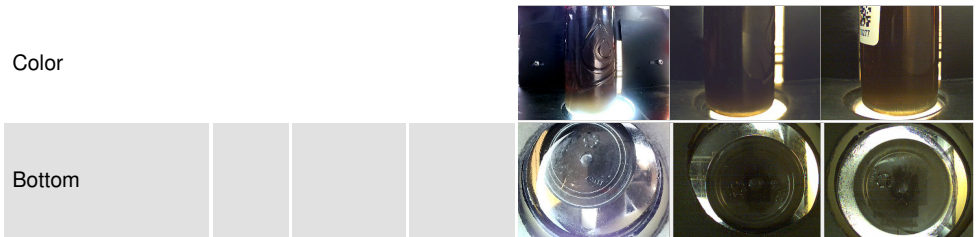
Viscosity @ 40°C



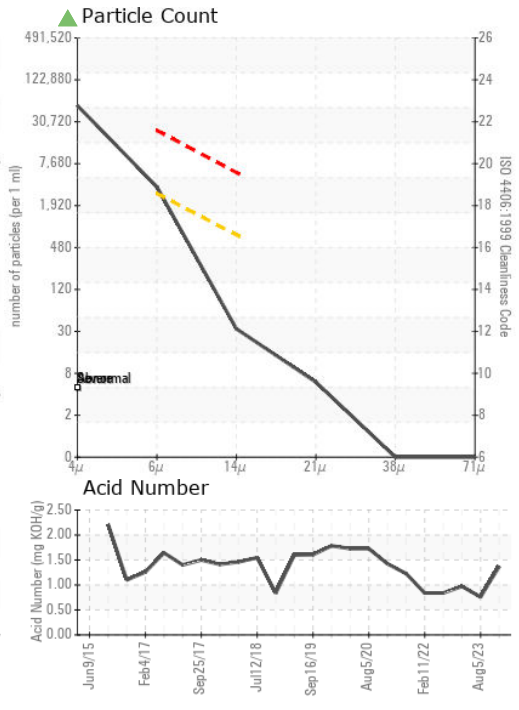
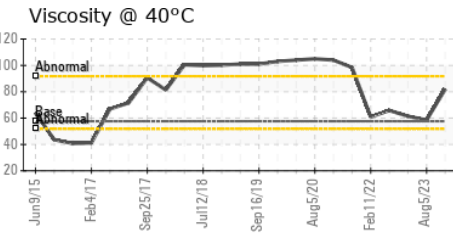
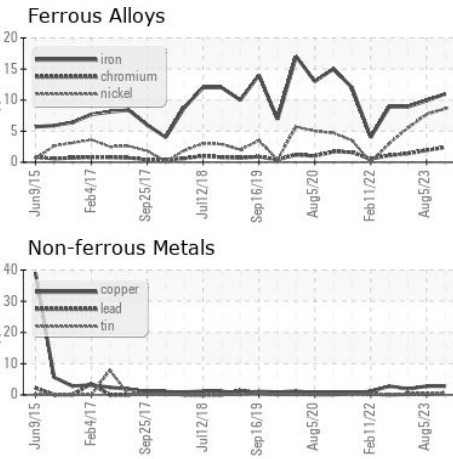
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	57.6	81.8	58.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0886940
 Lab Number : 06098319
 Unique Number : 10896549
 Test Package : CONST
 Received : 23 Feb 2024
 Tested : 26 Feb 2024
 Diagnosed : 26 Feb 2024 - Don Baldrige

SHERWOOD CONSTRUCTION CO INC
 3219 WEST MAY ST
 WICHITA, KS
 US 67213
 Contact: DOUG KING
 doug.king@sherwood.net
 T: (316)617-3161
 F: x:

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)