

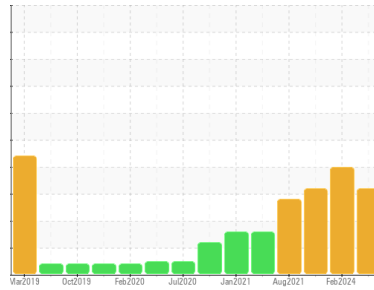


OIL ANALYSIS REPORT



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

Sample Rating Trend



DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. Oil and 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 high amount of silt (particulates < 14 microns in size) present in the fluid. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0935190	WC0886873	WC0746232
Sample Date	Client Info		12 May 2024	20 Feb 2024	11 Nov 2022
Machine Age	hrs	Client Info	10842	10382	7993
Oil Age	hrs	Client Info	5673	5673	3238
Oil Changed	Client Info		Changed	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >60	7	8	8
Chromium	ppm	ASTM D5185m >12	<1	<1	<1
Nickel	ppm	ASTM D5185m >6	0	0	0
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m	<1	0	0
Aluminum	ppm	ASTM D5185m >4	14	14	14
Lead	ppm	ASTM D5185m >12	0	<1	1
Copper	ppm	ASTM D5185m >30	3	1	1
Tin	ppm	ASTM D5185m	<1	0	<1
Antimony	ppm	ASTM D5185m	---	---	---
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	59	39	30
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	<1	0	<1
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	21	21	16
Calcium	ppm	ASTM D5185m	3172	2883	3167
Phosphorus	ppm	ASTM D5185m	1038	1004	998
Zinc	ppm	ASTM D5185m	1270	1217	1234
Sulfur	ppm	ASTM D5185m	5518	4665	5940

CONTAMINANTS

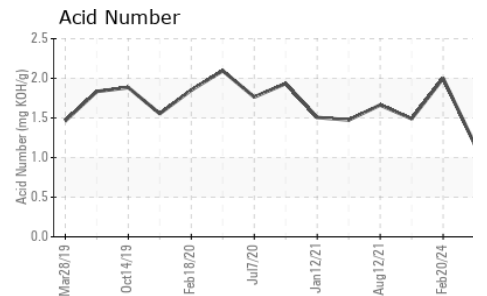
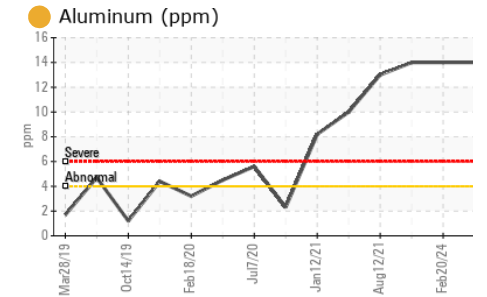
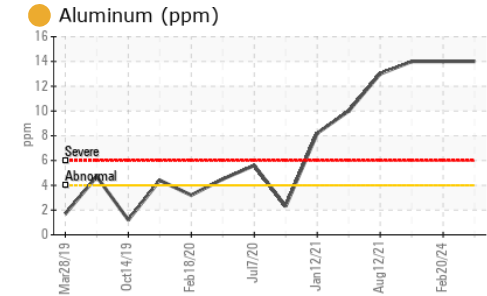
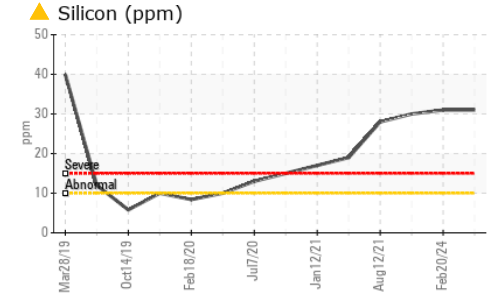
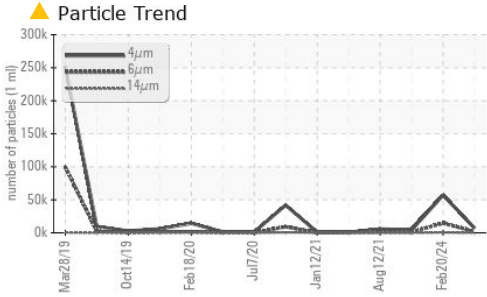
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >10	31	31	30
Sodium	ppm	ASTM D5185m	6	6	4
Potassium	ppm	ASTM D5185m >20	4	5	3

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		7005	57026	4363
Particles >6µm	ASTM D7647 >640		1789	14581	1114
Particles >14µm	ASTM D7647 >80		43	477	61
Particles >21µm	ASTM D7647 >20		8	81	6
Particles >38µm	ASTM D7647 >4		0	1	0
Particles >71µm	ASTM D7647 >3		0	0	0
Oil Cleanliness	ISO 4406 (c) >--/16/13		20/18/13	23/21/16	19/17/13





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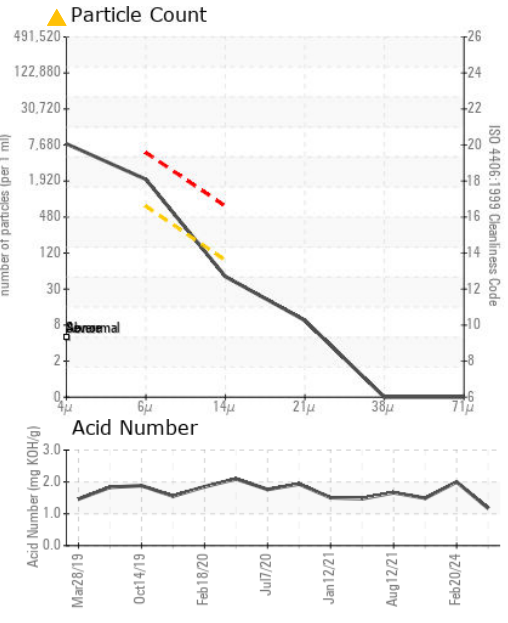
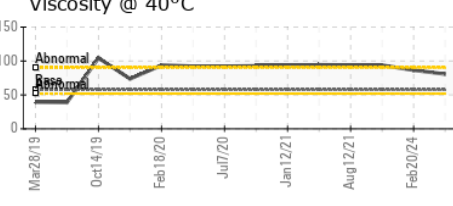
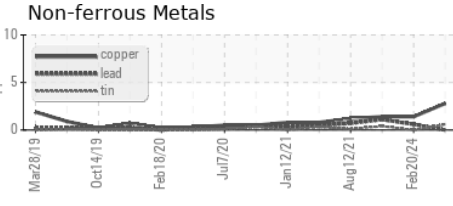
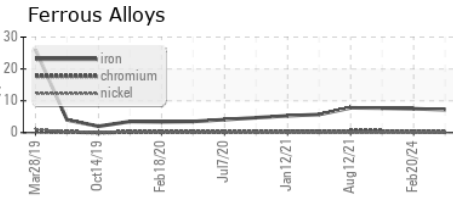
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.17	2.00	1.49

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.6	80.7	86.4	93.8

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0935190 **Received** : 20 May 2024
Lab Number : **06184910** **Tested** : 22 May 2024
Unique Number : 11036236 **Diagnosed** : 22 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PrtCount)

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 WICHITA, KS
 US 67213
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 doug.king@sherwood.net
 T: (316)617-3161
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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)