



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
ABNORMAL
NORMAL



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)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0886873	WC0746232	WC0606202
Sample Date		Client Info		20 Feb 2024	11 Nov 2022	12 Aug 2021
Machine Age	hrs	Client Info		10382	7993	5673
Oil Age	hrs	Client Info		5673	3238	1598
Filter Age	hrs	Client Info		5673	3238	756
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>60	8	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		0	0	<1
Aluminum	ppm	ASTM D5185m	>4	14	14	13
Lead	ppm	ASTM D5185m	>12	<1	1	<1
Copper	ppm	ASTM D5185m	>30	1	1	1
Tin	ppm	ASTM D5185m		0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

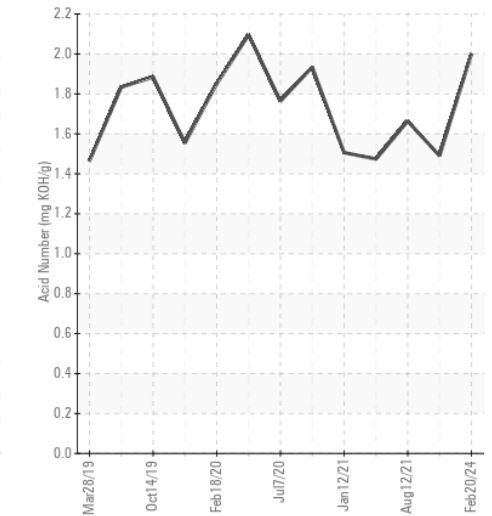
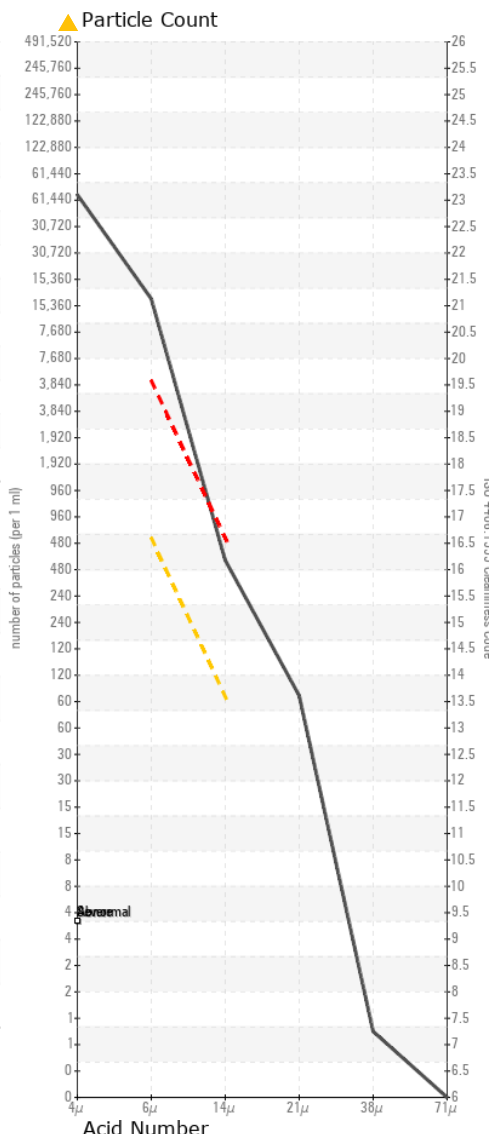
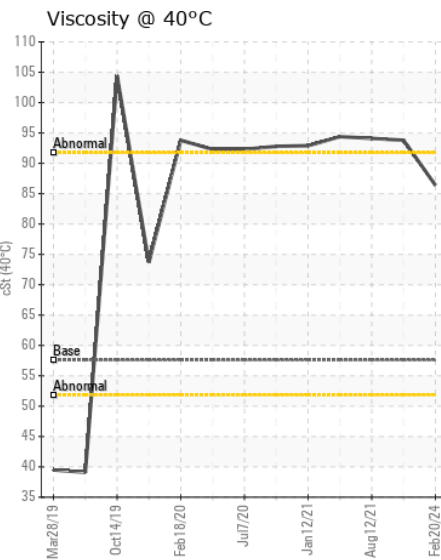
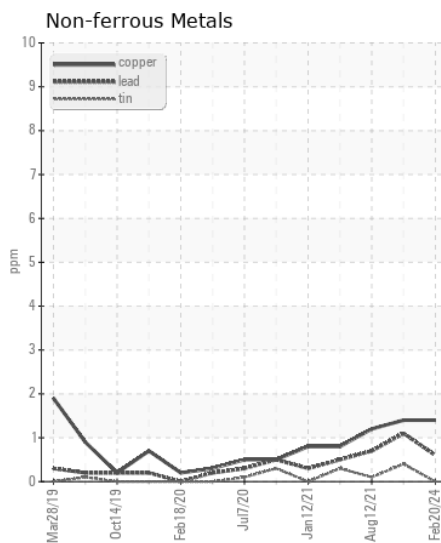
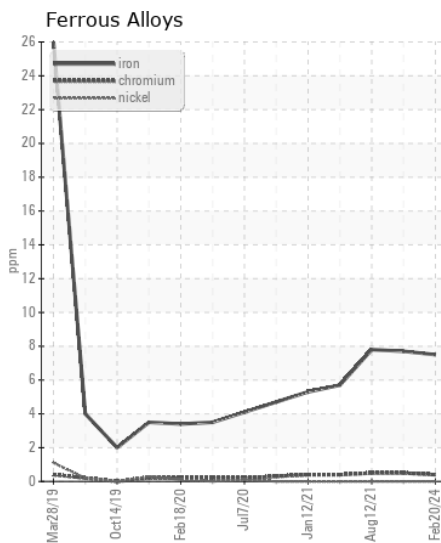
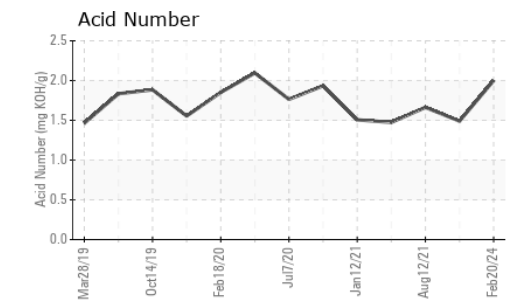
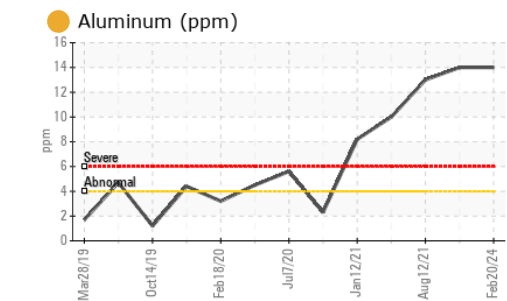
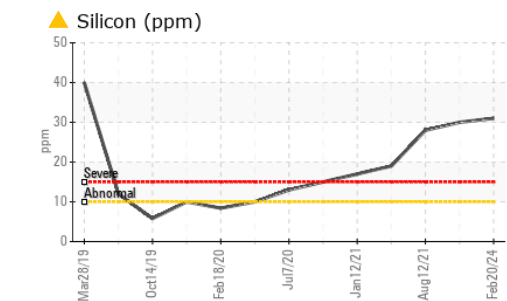
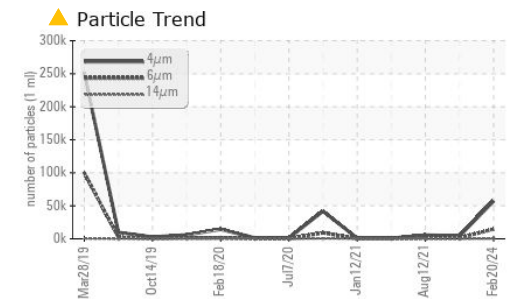
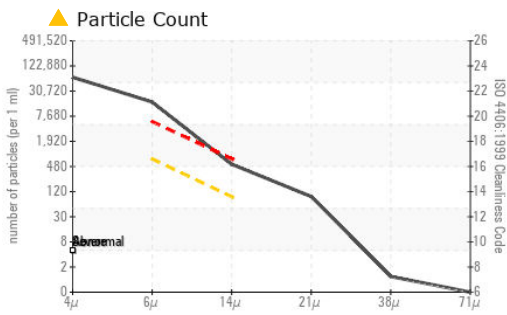
There is a high amount of particulates present in the fluid. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>10	31	30	28
Potassium	ppm	ASTM D5185m	>20	5	3	5
Water		WC Method		NEG	NEG	NEG
Particles >4µm		ASTM D7647		57026	4363	5805
Particles >6µm		ASTM D7647	>640	14581	1114	1251
Particles >14µm		ASTM D7647	>80	477	61	57
Particles >21µm		ASTM D7647	>20	81	6	8
Particles >38µm		ASTM D7647	>4	1	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>-/16/13	23/21/16	19/17/13	20/17/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	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

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		6	4	4
Boron	ppm	ASTM D5185m		39	30	39
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		21	16	15
Calcium	ppm	ASTM D5185m		2883	3167	3279
Phosphorus	ppm	ASTM D5185m		1004	998	1073
Zinc	ppm	ASTM D5185m		1217	1234	1224
Sulfur	ppm	ASTM D5185m		4665	5940	4787
Acid Number (AN)	mg KOH/g	ASTM D8045		2.00	1.49	1.663
Visc @ 40°C	cSt	ASTM D445	57.6	86.4	93.8	94.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0886873 **Received** : 28 Feb 2024
Lab Number : 06102894 **Tested** : 01 Mar 2024
Unique Number : 10901124 **Diagnosed** : 01 Mar 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ, PrtCount)

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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)