CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

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)

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

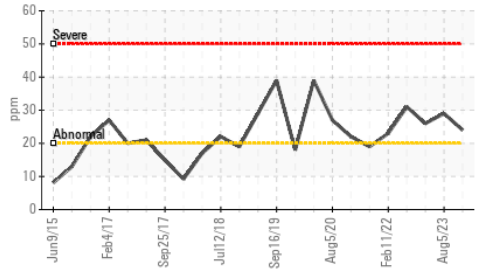
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal.

FLUID CONDITION

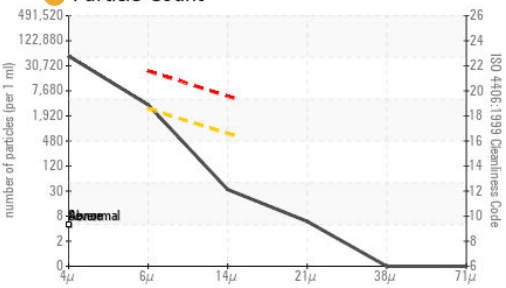
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	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
Filter Age	hrs	Client Info		**21084**	21084	21769
Oil Changed		Client Info		**N/A**	N/A	N/A
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
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
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	▲ **24**	▲ 29	▲ 26
Potassium	ppm	ASTM D5185m	>20	**3**	1	2
Water		WC Method	>0.1	**NEG**	NEG	NEG
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
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	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	>0.1	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185m		**0**	4	2
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
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.37**	0.76	0.972
Visc @ 40°C	cSt	ASTM D445	57.6	**81.8**	58.5	61.4

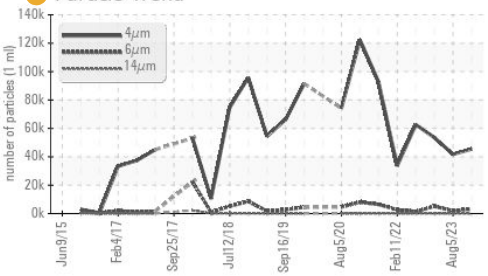
Silicon (ppm)



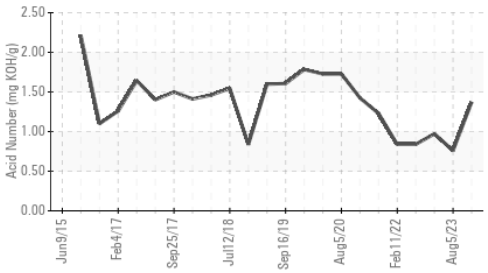
Particle Count



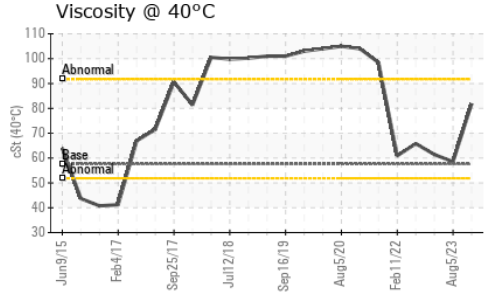
Particle Trend



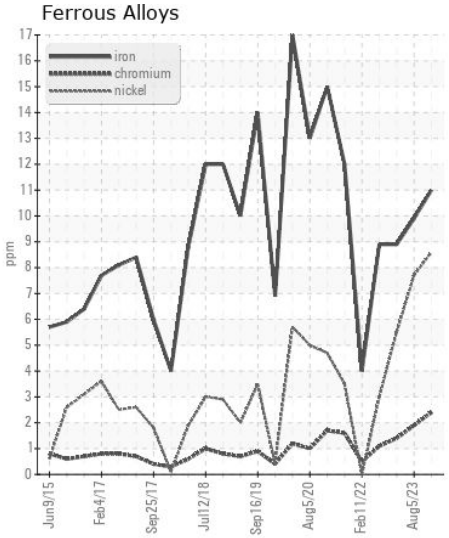
Acid Number



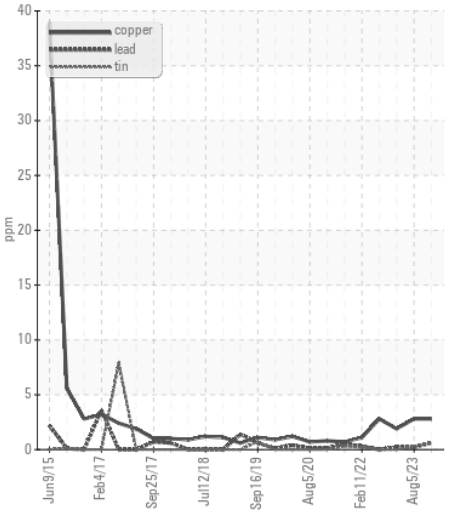
Viscosity @ 40°C



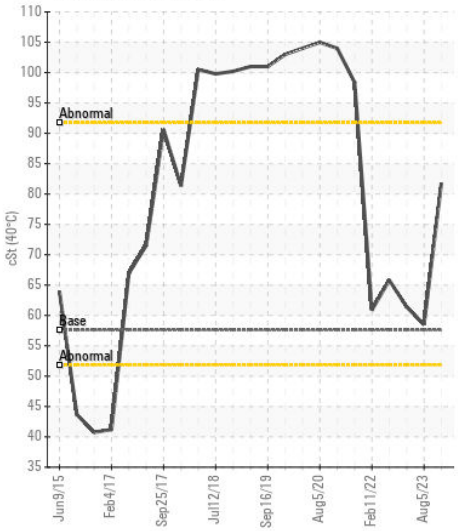
Ferrous Alloys



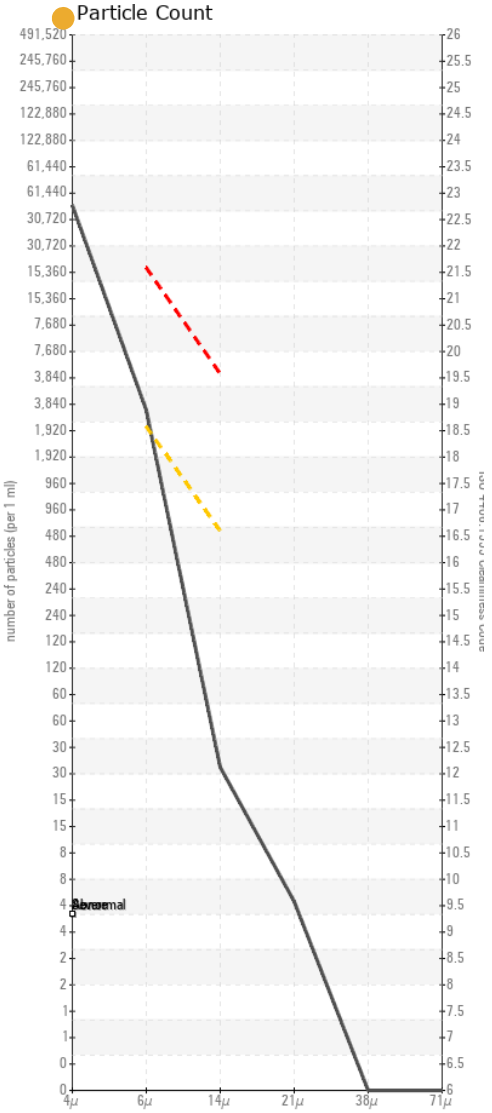
Non-ferrous Metals



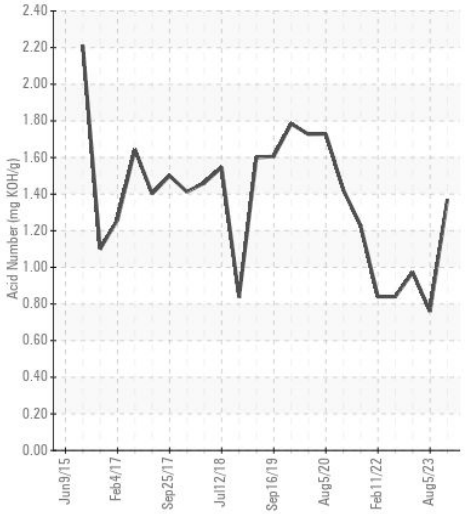
Viscosity @ 40°C



Particle Count



Acid Number



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 Baldridge

Certificate L2367

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)

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