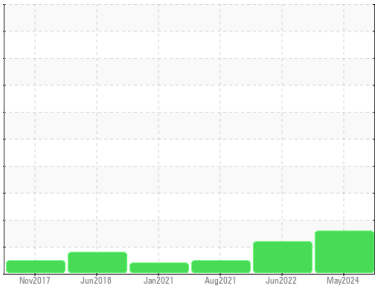
OIL ANALYSIS REPORT

Area
KANSAS/44/EG - TRUCK-OFF-HWY-HEAVY HAUL
Machine Id
69.98L [KANSAS^44^EG - TRUCK-OFF-HWY-HEAVY HAUL]
Component
Steering
Fluid
MOBIL MOBILTRANS AST 30 (--- GAL)

Sample Rating Trend



WEAR

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
An increase in the copper level is noted.

Contamination
There is a high amount of silt (particulates < 14 microns in size) present in the fluid.

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		**WC0908879**	WC0702219	WC0616658
Sample Date		Client Info		**29 May 2024**	08 Jun 2022	27 Aug 2021
Machine Age	hrs	Client Info		**7742**	6600	6120
Oil Age	hrs	Client Info		**1622**	500	3048
Oil Changed		Client Info		**Not Changd**	Not Changd	Changed
Sample Status				**ABNORMAL**	ATTENTION	NORMAL

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	**26**	3	10
Chromium	ppm	ASTM D5185m	>12	**0**	0	<1
Nickel	ppm	ASTM D5185m	>6	**0**	0	<1
Titanium	ppm	ASTM D5185m		**<1**	0	<1
Silver	ppm	ASTM D5185m		**0**	<1	<1
Aluminum	ppm	ASTM D5185m	>4	**<1**	1	0
Lead	ppm	ASTM D5185m	>12	**4**	<1	1
Copper	ppm	ASTM D5185m	>30	▲ **21**	<1	1
Tin	ppm	ASTM D5185m		**2**	0	0
Antimony	ppm	ASTM D5185m		**---**	---	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

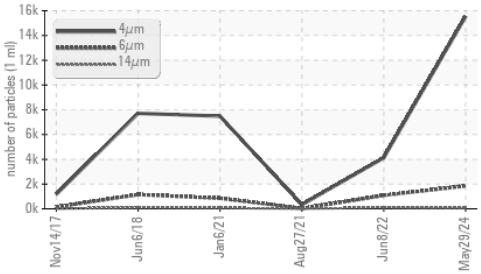
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**41**	38	29
Barium	ppm	ASTM D5185m		**<1**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	1	<1
Manganese	ppm	ASTM D5185m		**1**	<1	<1
Magnesium	ppm	ASTM D5185m		**19**	26	17
Calcium	ppm	ASTM D5185m		**3235**	2879	3231
Phosphorus	ppm	ASTM D5185m		**1134**	957	1047
Zinc	ppm	ASTM D5185m		**1323**	1192	1257
Sulfur	ppm	ASTM D5185m		**6079**	4819	5175

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>10	**8**	6	14
Sodium	ppm	ASTM D5185m		**2**	2	<1
Potassium	ppm	ASTM D5185m	>20	**<1**	0	<1

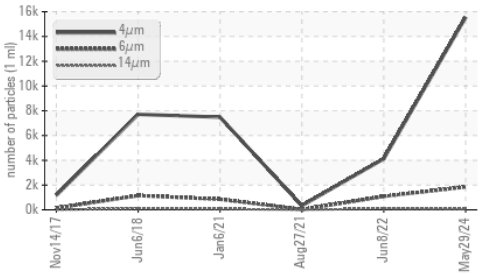
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**15544**	4116	325
Particles >6µm		ASTM D7647	>640	▲ **1846**	● 1084	28
Particles >14µm		ASTM D7647	>80	**47**	● 93	2
Particles >21µm		ASTM D7647	>20	**10**	18	0
Particles >38µm		ASTM D7647	>4	**0**	1	0
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>--/16/13	▲ **21/18/13**	● 19/17/14	16/12/9

OIL ANALYSIS REPORT

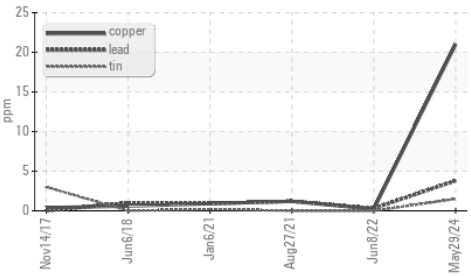
Particle Trend



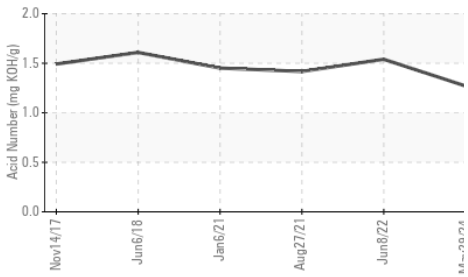
Particle Trend



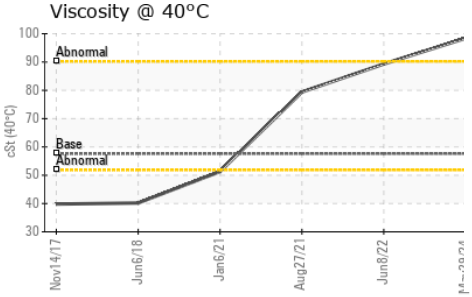
Non-ferrous Metals



Acid Number



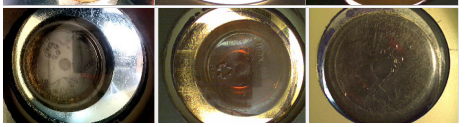
Viscosity @ 40°C



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.27**	1.54	1.417

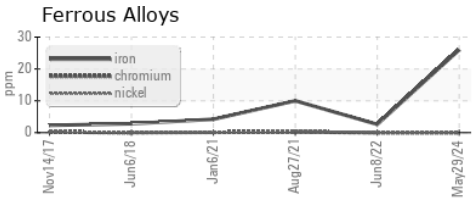
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.6	**98.4**	89.3	79.4

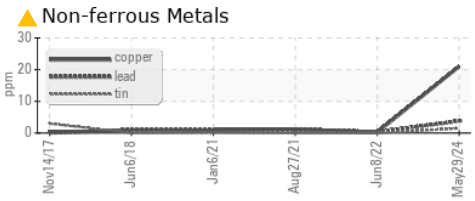
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

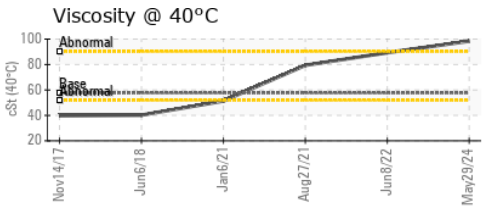
Ferrous Alloys



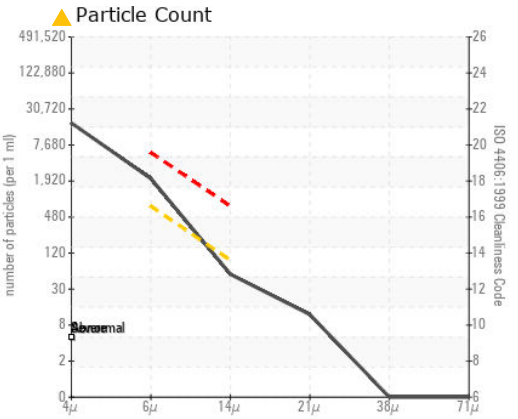
Non-ferrous Metals



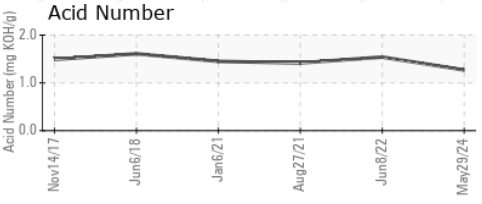
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0908879
Lab Number : 06200069
Unique Number : 11062192
Test Package : CONST (Additional Tests: PrtCount)

Received : 05 Jun 2024
Tested : 06 Jun 2024
Diagnosed : 07 Jun 2024 - Jonathan Hester

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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Report Id: SHEWIC [WUSCAR] 06200069 (Generated: 06/07/2024 23:13:17) Rev: 1

Submitted By: SHAWN SOUTH