OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL
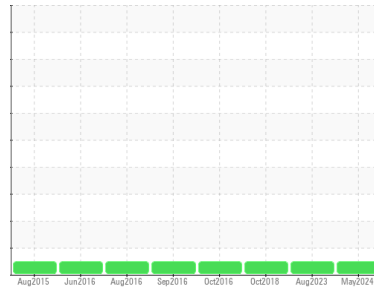
Area
OKLAHOMA/102/EG - SCRAPER
Machine Id
76.31L [OKLAHOMA^102^EG - SCRAPER]
Component
Front Differential
Fluid
MOBIL MOBILUBE HD PLUS 85W140 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0918083**	WC0833968	WCCF8817
Sample Date		Client Info		**30 May 2024**	21 Aug 2023	26 Oct 2018
Machine Age	hrs	Client Info		**15147**	1885	13051
Oil Age	hrs	Client Info		**2096**	1000	500
Oil Changed		Client Info		**Not Changd**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	**43**	165	44
Chromium	ppm	ASTM D5185m	>3	**0**	<1	0
Nickel	ppm	ASTM D5185m	>3	**0**	0	0
Titanium	ppm	ASTM D5185m	>2	**0**	<1	0
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>30	**<1**	4	<1
Lead	ppm	ASTM D5185m	>13	**0**	0	2
Copper	ppm	ASTM D5185m	>103	**<1**	4	1
Tin	ppm	ASTM D5185m	>5	**<1**	0	0
Antimony	ppm	ASTM D5185m	>5	**---**	---	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		**215**	179	125
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	0	7
Manganese	ppm	ASTM D5185m		**<1**	1	2
Magnesium	ppm	ASTM D5185m		**8**	9	30
Calcium	ppm	ASTM D5185m		**225**	537	161
Phosphorus	ppm	ASTM D5185m		**1011**	1060	832
Zinc	ppm	ASTM D5185m		**90**	226	94
Sulfur	ppm	ASTM D5185m		**34146**	30092	22810

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	**4**	9	2
Sodium	ppm	ASTM D5185m		**2**	8	2
Potassium	ppm	ASTM D5185m	>20	**<1**	0	3

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
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	>.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

Viscosity @ 40°C
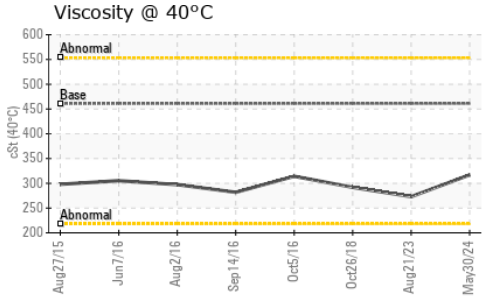
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	461	**317**	273	291.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS

Ferrous Alloys

Non-ferrous Metals

Viscosity @ 40°C
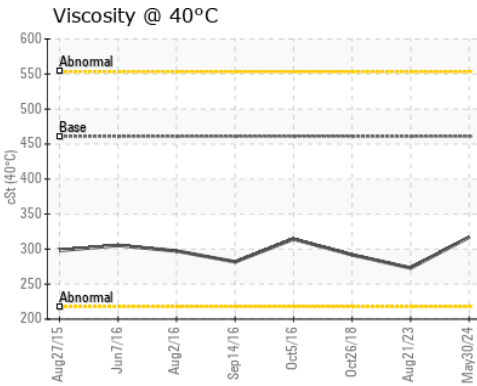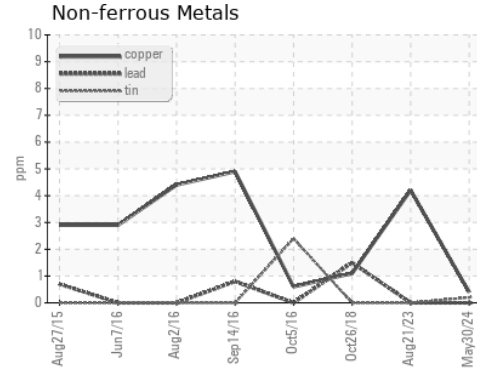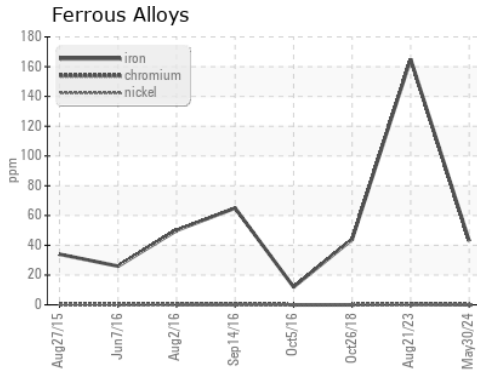
Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0918083   **Received** : 13 Jun 2024
Lab Number : 06209032   **Tested** : 14 Jun 2024
Unique Number : 11076493   **Diagnosed** : 14 Jun 2024 - Wes Davis
Test Package : CONST

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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ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
Certificate L2367