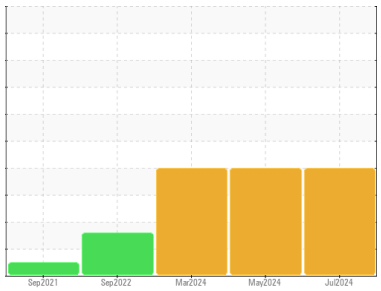
OIL ANALYSIS REPORT

Area
KANSAS/44/SKIDSTEER
Machine Id
53.150L [KANSAS^44^SKIDSTEER]
Component
Rear Right Final Drive
Fluid
MOBIL MOBILUBE HD PLUS 75W90 (0 GAL)

Sample Rating Trend



DIRT

DIAGNOSIS

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

Wear
Gear wear is indicated.

Contamination
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

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		**WC0918346**	WC0901239	WC0779816
Sample Date		Client Info		**08 Jul 2024**	29 May 2024	11 Mar 2024
Machine Age	hrs	Client Info		**2958**	5372	1616
Oil Age	hrs	Client Info		**8**	3756	0
Oil Changed		Client Info		**Changed**	Changed	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	▲ **1396**	▲ 1029	▲ 1084
Chromium	ppm	ASTM D5185m	>10	▲ **22**	▲ 13	▲ 12
Nickel	ppm	ASTM D5185m	>5	**2**	1	1
Titanium	ppm	ASTM D5185m	>15	**3**	2	2
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>75	● **54**	● 21	● 19
Lead	ppm	ASTM D5185m	>10	**0**	0	0
Copper	ppm	ASTM D5185m	>75	**1**	<1	3
Tin	ppm	ASTM D5185m	>8	**0**	<1	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**288**	319	103
Barium	ppm	ASTM D5185m		**0**	<1	0
Molybdenum	ppm	ASTM D5185m		**0**	0	<1
Manganese	ppm	ASTM D5185m		**13**	10	9
Magnesium	ppm	ASTM D5185m		**11**	6	6
Calcium	ppm	ASTM D5185m		**57**	66	41
Phosphorus	ppm	ASTM D5185m		**1585**	1442	1352
Zinc	ppm	ASTM D5185m		**14**	16	26
Sulfur	ppm	ASTM D5185m		**29250**	28007	18720

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	▲ **299**	▲ 117	▲ 109
Sodium	ppm	ASTM D5185m		**9**	6	4
Potassium	ppm	ASTM D5185m	>20	**18**	10	9

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	>0.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

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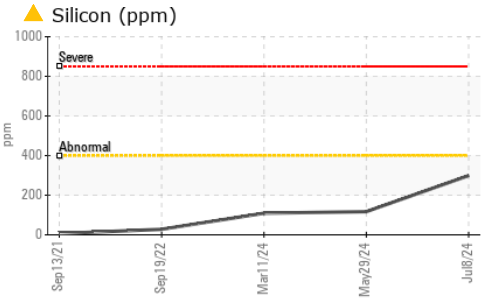
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	85	**104**	108	83.0

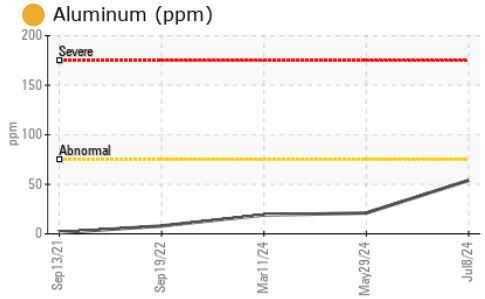
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

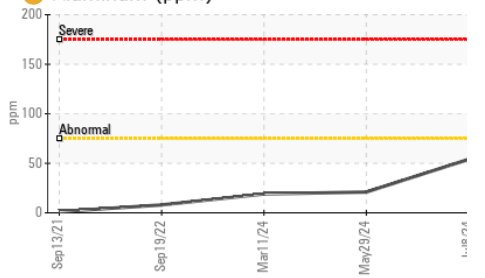
Silicon (ppm)



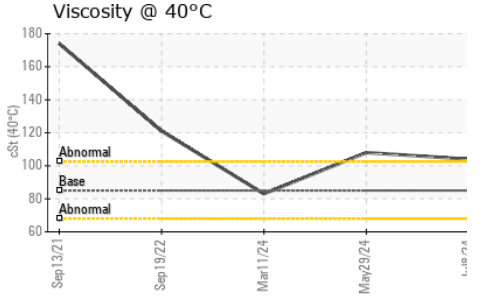
Aluminum (ppm)



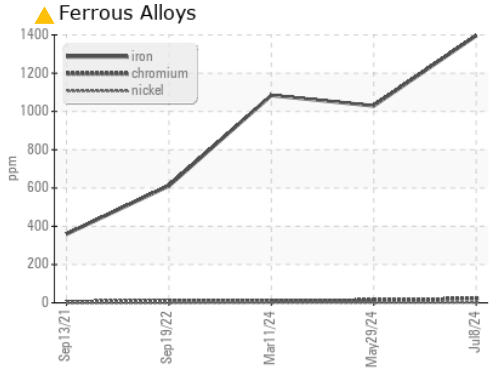
Aluminum (ppm)



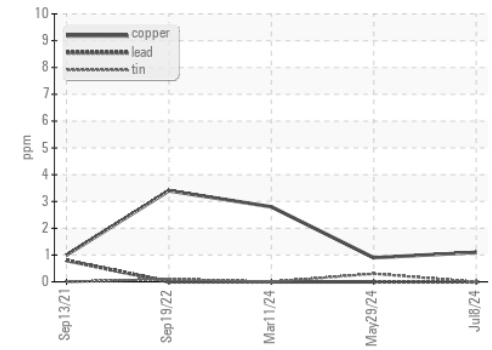
Viscosity @ 40°C



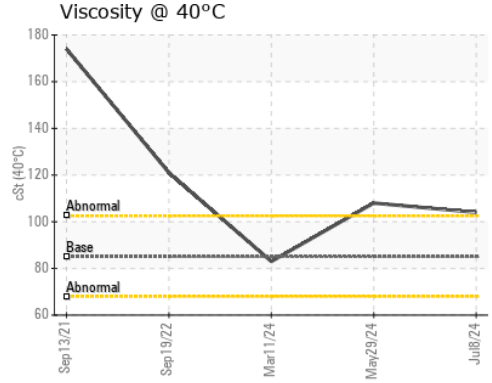
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0918346
Lab Number : 06237165
Unique Number : 11125999
Test Package : CONST

Received : 15 Jul 2024
Tested : 17 Jul 2024
Diagnosed : 17 Jul 2024 - Don Baldridge

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] 06237165 (Generated: 07/17/2024 16:15:09) Rev: 1

Submitted By: JAMES MOORE