



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area
KANSAS/101/EG - LOADER
 Machine Id
53.07L [KANSAS^101^EG - LOADER]
 Component
Front Differential
 Fluid
MOBIL MOBILUBE HD PLUS 85W140 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0528089	WC0339458	WCCF4029
Sample Date		Client Info		19 Mar 2021	05 Jul 2019	04 May 2018
Machine Age		Client Info		3890	3488	3196
Oil Age		Client Info		0	0	0
Filter Age		Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		N/A	Not Changed	Not Changed
Sample Status				ATTENTION	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	260	▲ 1483	216
Chromium	ppm	ASTM D5185m	>10	<1	4	<1
Nickel	ppm	ASTM D5185m		<1	1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	4	<1
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m	>100	<1	1	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

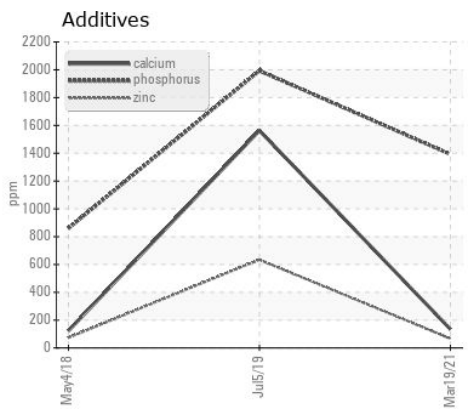
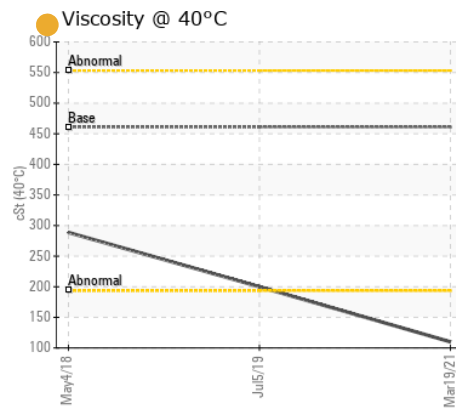
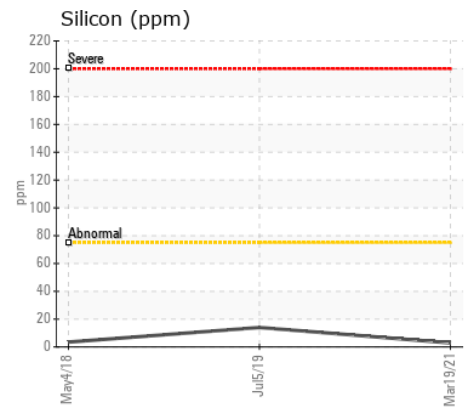
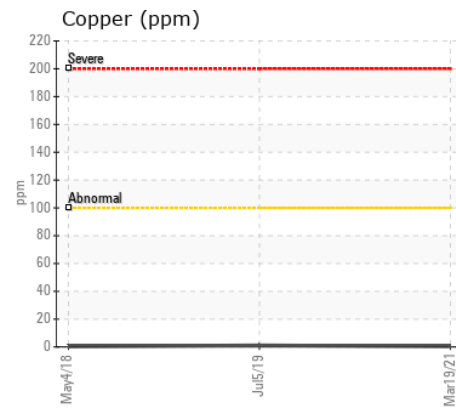
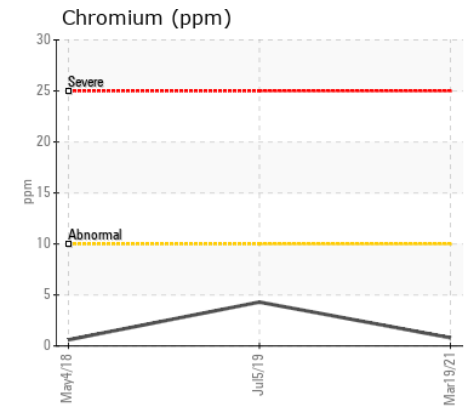
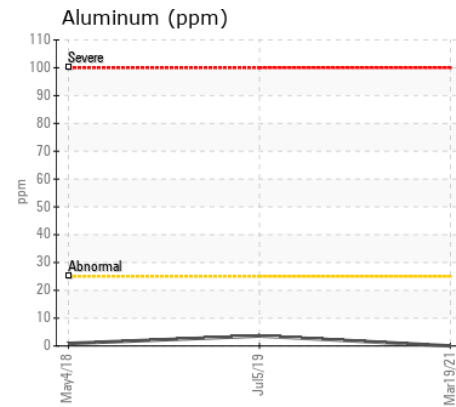
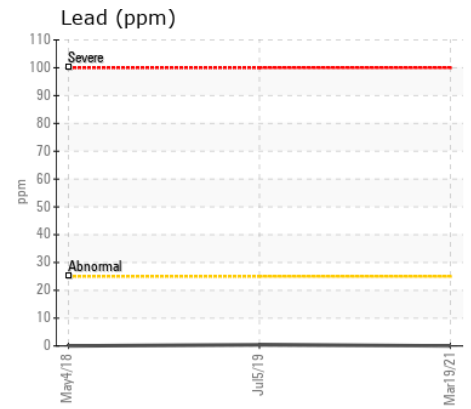
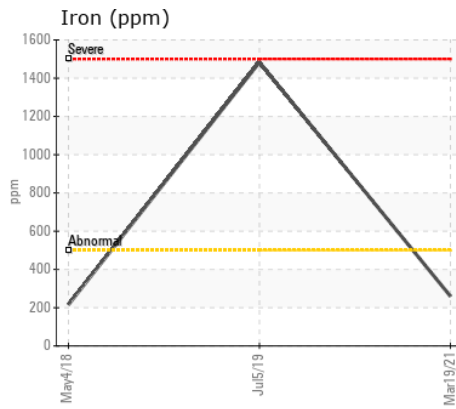
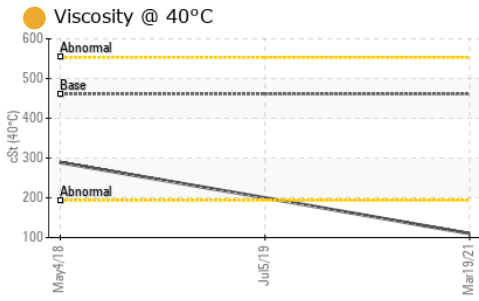
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	3	14	4
Potassium	ppm	ASTM D5185m	>20	<1	2	<1
Water		WC Method	>.2	NEG	NEG	NEG
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

FLUID CONDITION

The oil viscosity is lower than normal. Confirm oil type.

Sodium	ppm	ASTM D5185m		<1	3	2
Boron	ppm	ASTM D5185m		297	101	120
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		6	15	6
Manganese	ppm	ASTM D5185m		3	11	2
Magnesium	ppm	ASTM D5185m		1	7	5
Calcium	ppm	ASTM D5185m		135	1563	123
Phosphorus	ppm	ASTM D5185m		1392	1993	860
Zinc	ppm	ASTM D5185m		67	634	74
Sulfur	ppm	ASTM D5185m		19808	12954	15526
Visc @ 40°C	cSt	ASTM D445	461	● 110	200	288.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0528089 **Received** : 25 Mar 2021
Lab Number : 05213384 **Tested** : 28 Mar 2021
Unique Number : 9437277 **Diagnosed** : 28 Mar 2021 - Don Baldrige
Test Package : MOBCE

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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)