



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Area
KANSAS/88
Machine Id
53.166L [KANSAS^88]
Component
Left Final Drive
Fluid
MOBIL 75W90 (--- GAL)

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. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

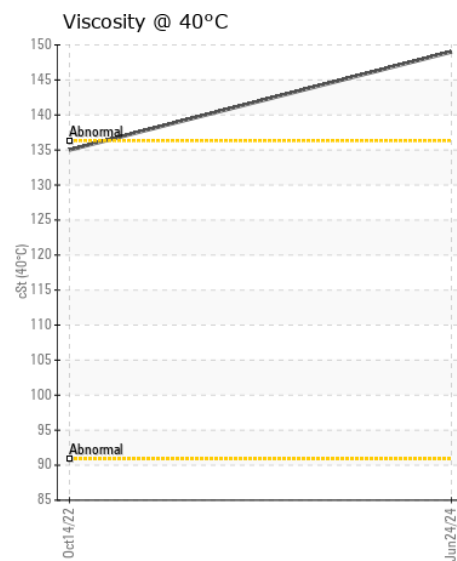
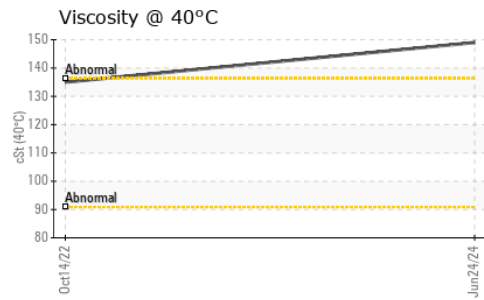
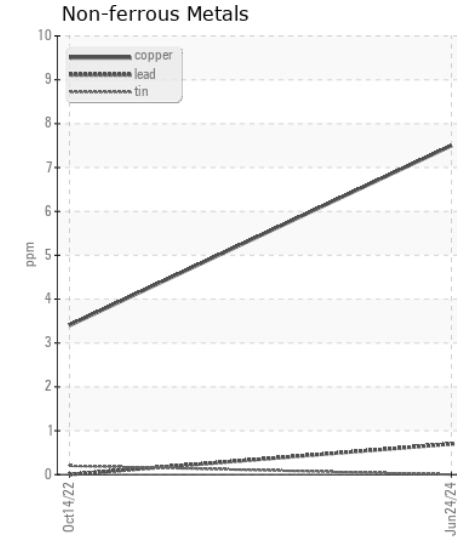
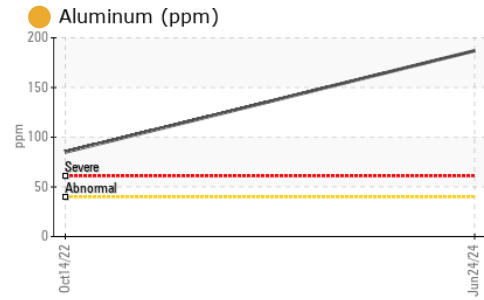
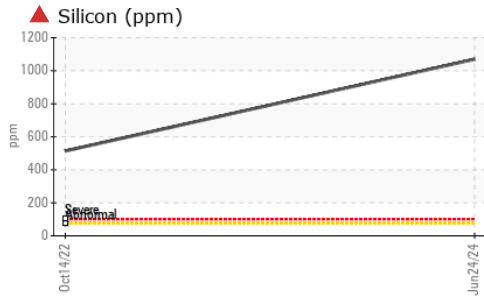
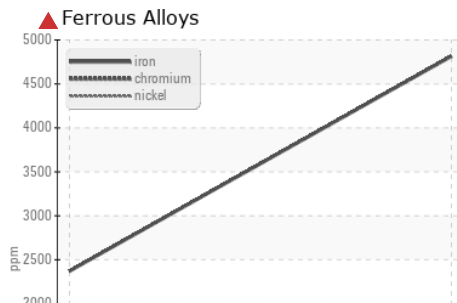
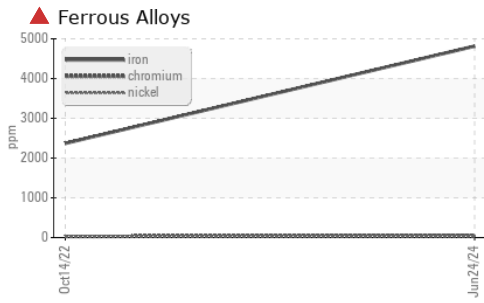
CONTAMINATION

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

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0918261	WC0741753	---
Sample Date		Client Info		24 Jun 2024	14 Oct 2022	---
Machine Age	hrs	Client Info		3180	2732	---
Oil Age	hrs	Client Info		0	2732	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	SEVERE	---
Iron	ppm	ASTM D5185m	>750	▲ 4815	▲ 2370	---
Chromium	ppm	ASTM D5185m	>9	▲ 47	▲ 26	---
Nickel	ppm	ASTM D5185m	>10	▲ 27	16	---
Titanium	ppm	ASTM D5185m		12	5	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>40	● 187	● 85	---
Lead	ppm	ASTM D5185m	>15	<1	0	---
Copper	ppm	ASTM D5185m	>40	8	3	---
Tin	ppm	ASTM D5185m	>10	0	<1	---
Vanadium	ppm	ASTM D5185m		2	1	---
White Metal	scalar	*Visual	NONE	NONE	▲ MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>75	▲ 1070	▲ 514	---
Potassium	ppm	ASTM D5185m	>20	68	29	---
Water		WC Method	>0.075	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	---
Sodium	ppm	ASTM D5185m	>51	31	20	---
Boron	ppm	ASTM D5185m		43	22	---
Barium	ppm	ASTM D5185m		6	2	---
Molybdenum	ppm	ASTM D5185m		9	5	---
Manganese	ppm	ASTM D5185m		37	18	---
Magnesium	ppm	ASTM D5185m		40	13	---
Calcium	ppm	ASTM D5185m		293	79	---
Phosphorus	ppm	ASTM D5185m		228	212	---
Zinc	ppm	ASTM D5185m		28	14	---
Sulfur	ppm	ASTM D5185m		21401	24957	---
Visc @ 40°C	cSt	ASTM D445		149	135	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0918261
Lab Number : 06224910
Unique Number : 11103107
Test Package : CONST

Received : 01 Jul 2024
Tested : 02 Jul 2024
Diagnosed : 02 Jul 2024 - Don Baldrige

SHERWOOD CONSTRUCTION CO INC
 3219 WEST MAY ST
 WICHITA, KS
 US 67213
 Contact: DOUG KING
 Doug.King@sherwood.net

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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F: