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LIEBHERR

OIL ANALYSIS REPORT

WEAR	MARGINAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(353690)
Machine Id
LIEBHERR LH60M 131944-1475
Component
Rear Right Wheel Hub
Fluid
PETRO CANADA TRAXON 75W90 SYNTHETIC (1 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

WEAR

Chromium ppm levels are marginal.

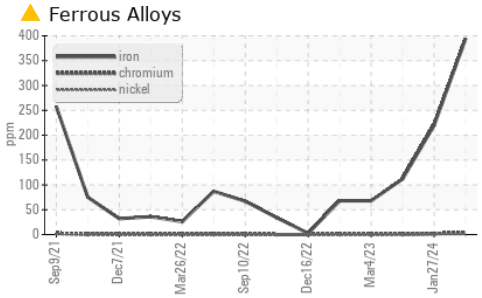
CONTAMINATION

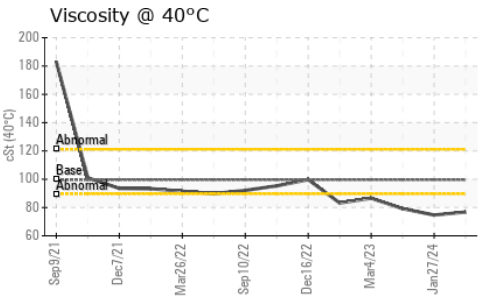
There is no indication of any contamination in the oil.

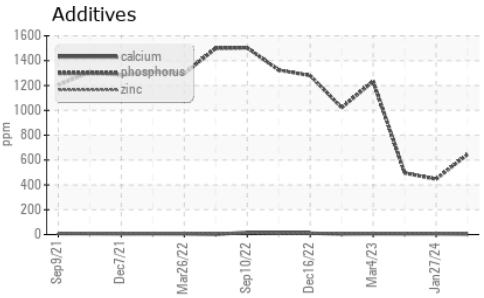
FLUID CONDITION

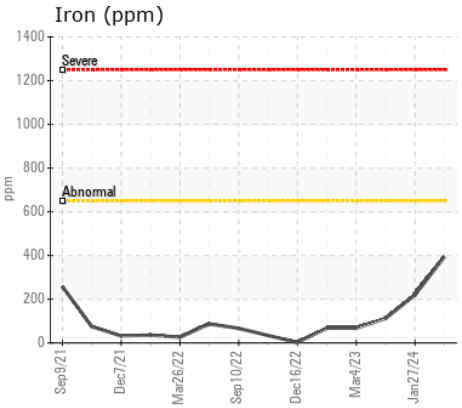
Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within SAE 80 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

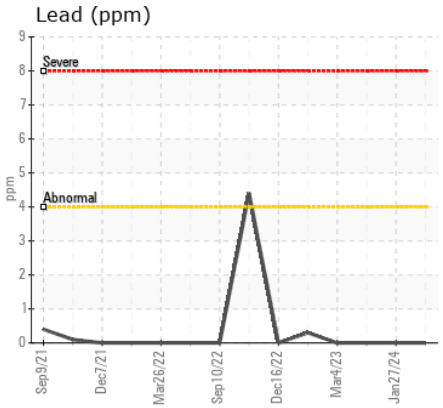
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**LH0288317**	LH0276954	LH0276947
Sample Date		Client Info		**27 Apr 2024**	27 Jan 2024	22 Nov 2023
Machine Age	hrs	Client Info		**12400**	11193	10354
Oil Age	hrs	Client Info		**0**	0	0
Filter Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**MARGINAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>650	**394**	220	112
Chromium	ppm	ASTM D5185(m)	>4	▲ **4**	2	<1
Nickel	ppm	ASTM D5185(m)	>4	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)	>4	**0**	0	0
Silver	ppm	ASTM D5185(m)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>25	**<1**	1	2
Lead	ppm	ASTM D5185(m)	>4	**0**	0	0
Copper	ppm	ASTM D5185(m)	>60	**2**	2	1
Tin	ppm	ASTM D5185(m)	>4	**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
White Metal	scalar	Visual*	NONE	**NONE**	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>75	**4**	5	6
Potassium	ppm	ASTM D5185(m)	>20	**6**	1	<1
Water		WC Method	>0.2	**NEG**	NEG	NEG
Silt	scalar	Visual*	NONE	**VLITE**	NONE	VLITE
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
Sodium	ppm	ASTM D5185(m)		**3**	<1	<1
Boron	ppm	ASTM D5185(m)	328	**6**	16	31
Barium	ppm	ASTM D5185(m)	1	**1**	<1	<1
Molybdenum	ppm	ASTM D5185(m)		**0**	0	0
Manganese	ppm	ASTM D5185(m)		**4**	2	<1
Magnesium	ppm	ASTM D5185(m)	1	**<1**	1	2
Calcium	ppm	ASTM D5185(m)	7	**4**	6	6
Phosphorus	ppm	ASTM D5185(m)	1145	**646**	446	496
Zinc	ppm	ASTM D5185(m)	3	**6**	6	6
Sulfur	ppm	ASTM D5185(m)	17909	**19858**	17004	16914
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	**76.8**	74.7	79.2

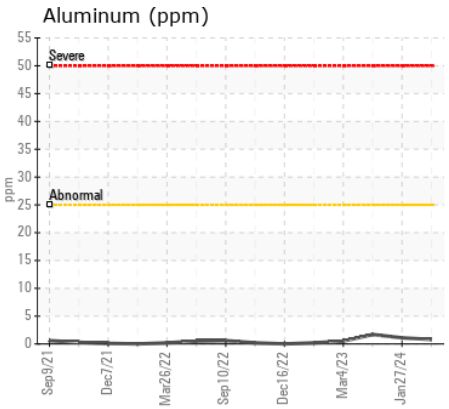


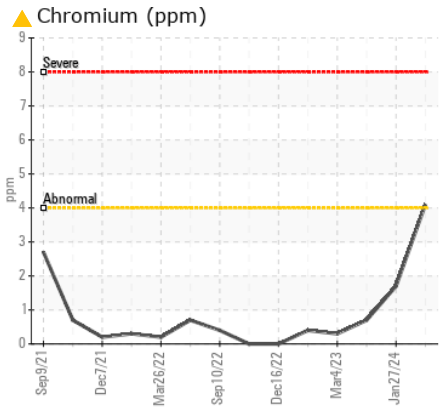


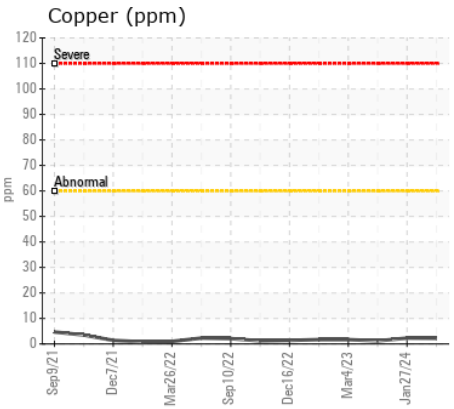


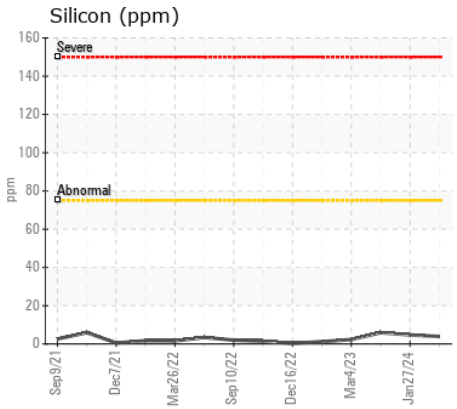


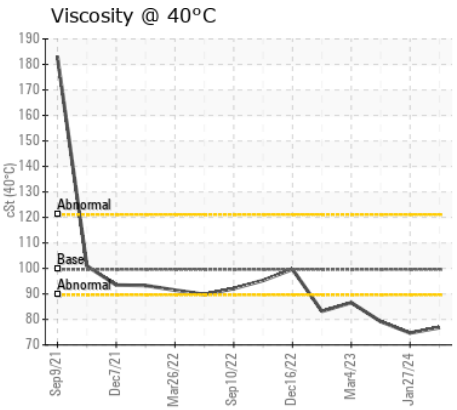


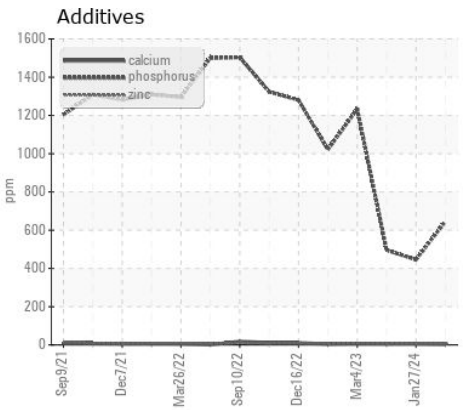












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0288317
Lab Number : 02635036
Unique Number : 5776189
Test Package : MOB 1

Received : 13 May 2024
Tested : 13 May 2024
Diagnosed : 13 May 2024 - Kevin Marson

Eacom Timber Corporation
100 Old Nairn Centre Road
Nairn Centre, ON
CA P0M 2L0
Contact: Service Manager

T:
F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.