MOB

LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Area
(360378)
Machine Id
LIEBHERR A918 134117-1508
Component
Transmission (Auto)
Fluid
PETRO CANADA 10W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

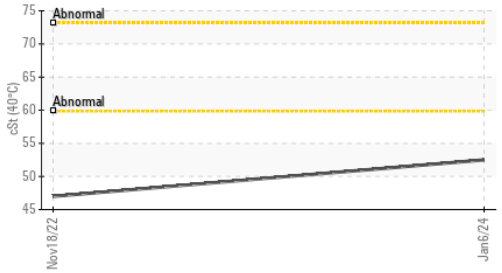
There is no indication of any contamination in the fluid.

FLUID CONDITION

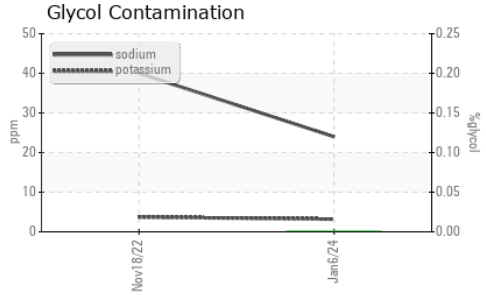
Viscosity of sample indicates oil is within SAE 20 range, advise investigate. The condition of the fluid is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**LH0216263**	LH0216250	---
Sample Date		Client Info		**06 Jan 2024**	18 Nov 2022	---
Machine Age	hrs	Client Info		**2036**	1007	---
Oil Age	hrs	Client Info		**0**	0	---
Filter Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**Changed**	Changed	---
Filter Changed		Client Info		**None**	None	---
Sample Status				**ABNORMAL**	ABNORMAL	---
Iron	ppm	ASTM D5185(m)	>160	**46**	31	---
Chromium	ppm	ASTM D5185(m)	>5	**<1**	<1	---
Nickel	ppm	ASTM D5185(m)	>5	**<1**	<1	---
Titanium	ppm	ASTM D5185(m)		**0**	<1	---
Silver	ppm	ASTM D5185(m)	>5	**0**	0	---
Aluminum	ppm	ASTM D5185(m)	>50	**2**	3	---
Lead	ppm	ASTM D5185(m)	>50	**2**	1	---
Copper	ppm	ASTM D5185(m)	>225	**53**	52	---
Tin	ppm	ASTM D5185(m)	>10	**1**	1	---
Vanadium	ppm	ASTM D5185(m)		**0**	<1	---
White Metal	scalar	Visual*	NONE	**NONE**	NONE	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	---
Silicon	ppm	ASTM D5185(m)	>20	**3**	3	---
Potassium	ppm	ASTM D5185(m)	>20	**3**	4	---
Water		WC Method	>0.1	**NEG**	NEG	---
Glycol	%	ASTM D7922*		**0.0**	---	---
Silt	scalar	Visual*	NONE	**VLITE**	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*	>0.1	**NEG**	NEG	---
Sodium	ppm	ASTM D5185(m)	>20	**24**	40	---
Boron	ppm	ASTM D5185(m)		**20**	5	---
Barium	ppm	ASTM D5185(m)		**2**	5	---
Molybdenum	ppm	ASTM D5185(m)		**23**	0	---
Manganese	ppm	ASTM D5185(m)		**12**	24	---
Magnesium	ppm	ASTM D5185(m)		**359**	7	---
Calcium	ppm	ASTM D5185(m)		**2192**	3550	---
Phosphorus	ppm	ASTM D5185(m)		**1126**	1170	---
Zinc	ppm	ASTM D5185(m)		**1056**	1173	---
Sulfur	ppm	ASTM D5185(m)		**7939**	8452	---
Visc @ 40°C	cSt	ASTM D7279(m)		▲ **52.5**	▲ 47.0	---

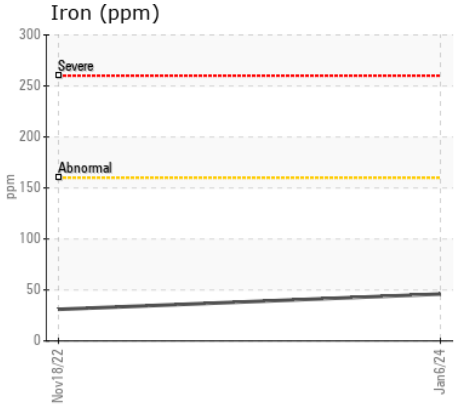
Viscosity @ 40°C



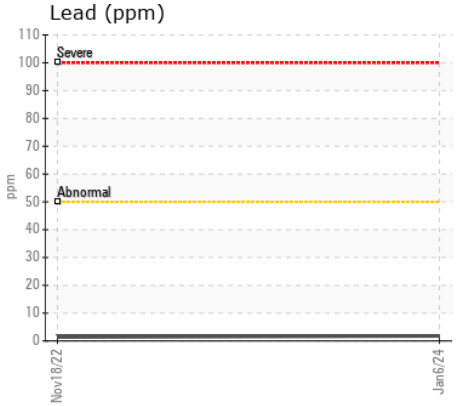
Glycol Contamination



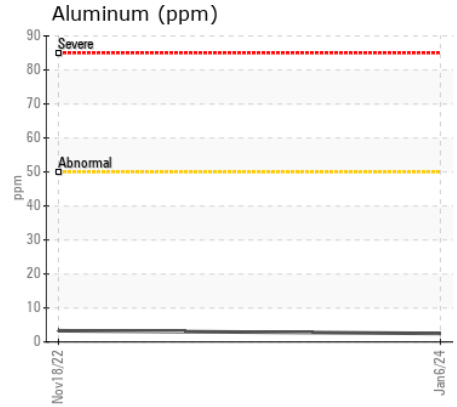
Iron (ppm)



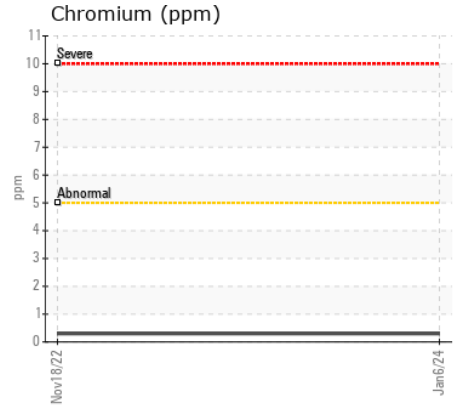
Lead (ppm)



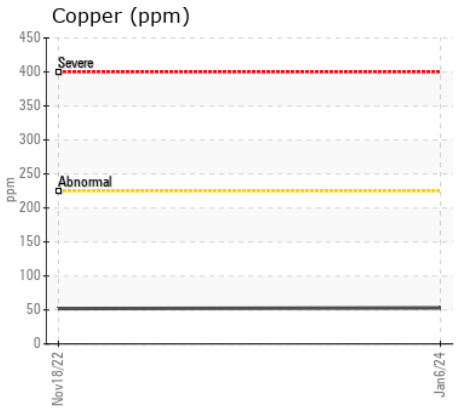
Aluminum (ppm)



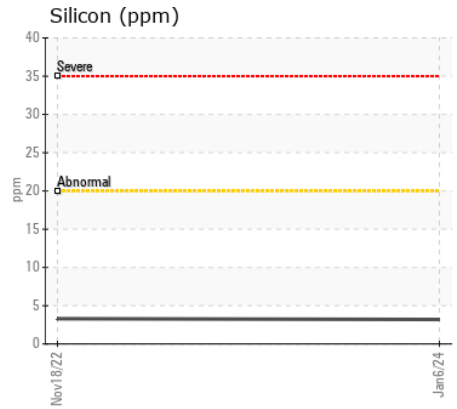
Chromium (ppm)



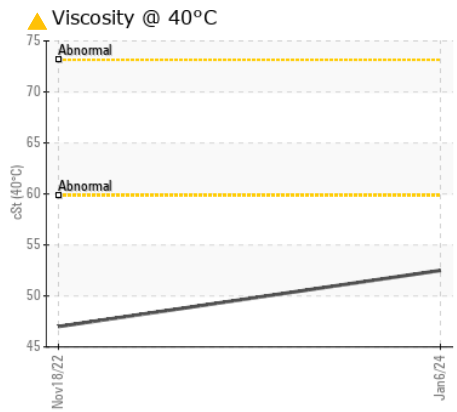
Copper (ppm)



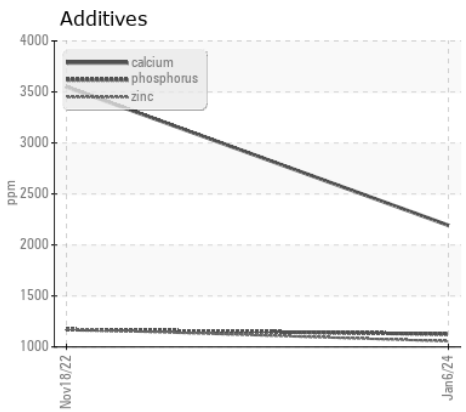
Silicon (ppm)



Viscosity @ 40°C



Additives



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **FAUBERT PRECISION CONTRACTING**
Sample No. : LH0216263 **Recieved** : 19 Jan 2024 1394 194 STREET
Lab Number : 02610006 **Diagnosed** : 22 Jan 2024 SURREY, BC
Unique Number : 5711092 **Diagnostician** : Kevin Marson CA V3Z 9R9
Test Package : MOBCE (Additional Tests: Glycol, Visual) Contact: Service Manager

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. T:
Validity of results and interpretation are based on the sample and information as supplied. F: