MOB I

LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
096750-1204
Component
Diesel Engine
Fluid
PETRO CANADA 10W40 (30 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

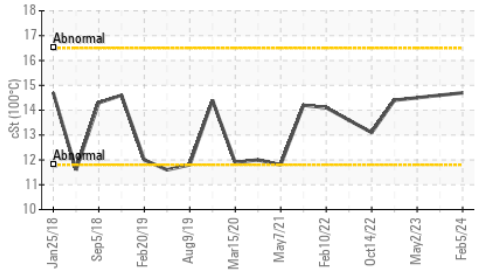
There is no indication of any contamination in the oil.

FLUID CONDITION

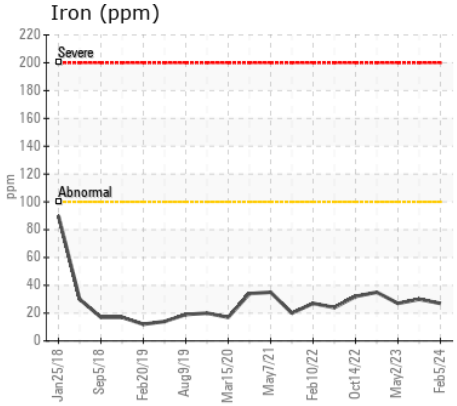
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**LH0285142**	LH0274880	LH0216229
Sample Date		Client Info		**05 Feb 2024**	31 Oct 2023	02 May 2023
Machine Age	hrs	Client Info		**10945**	10469	9977
Oil Age	hrs	Client Info		**0**	0	0
Filter Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	Changed	Changed
Filter Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**NORMAL**	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>100	**27**	30	27
Chromium	ppm	ASTM D5185(m)	>5	**<1**	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	2
Silver	ppm	ASTM D5185(m)	>3	**0**	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	**11**	9	11
Lead	ppm	ASTM D5185(m)	>30	**<1**	<1	<1
Copper	ppm	ASTM D5185(m)	>125	**2**	2	2
Tin	ppm	ASTM D5185(m)	>5	**0**	0	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>60	**6**	6	8
Potassium	ppm	ASTM D5185(m)	>20	**9**	21	▲ 76
Fuel		WC Method	>5	**<1.0**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	0.0	0.0
Soot %	%	ASTM D7844*	>3	**1.2**	1.3	1.1
Nitration	Abs/cm	ASTM D7624*	>20	**10.3**	10.4	9.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	**20.7**	21.5	20.9
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>20	**16**	37	129
Boron	ppm	ASTM D5185(m)		**<1**	1	2
Barium	ppm	ASTM D5185(m)		**0**	<1	0
Molybdenum	ppm	ASTM D5185(m)		**62**	68	69
Manganese	ppm	ASTM D5185(m)		**0**	0	<1
Magnesium	ppm	ASTM D5185(m)		**985**	1060	978
Calcium	ppm	ASTM D5185(m)		**1108**	1159	1135
Phosphorus	ppm	ASTM D5185(m)		**1035**	1101	1112
Zinc	ppm	ASTM D5185(m)		**1217**	1340	1234
Sulfur	ppm	ASTM D5185(m)		**2704**	2732	2680
Oxidation	Abs/.1mm	ASTM D7414*	>25	**16.3**	16.5	15.5
Visc @ 100°C	cSt	ASTM D7279(m)		**14.7**	14.6	14.5

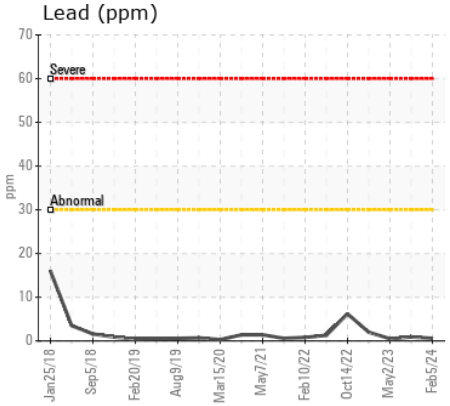
Viscosity @ 100°C



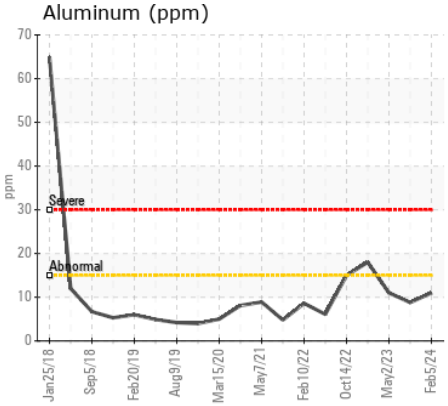
Iron (ppm)



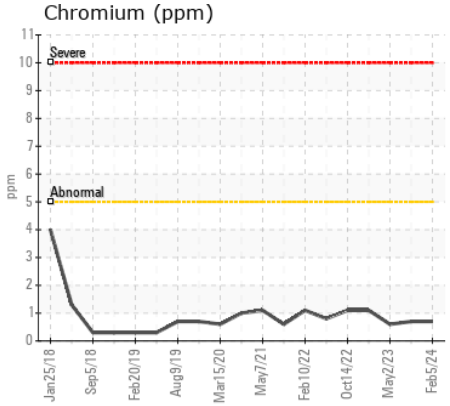
Lead (ppm)



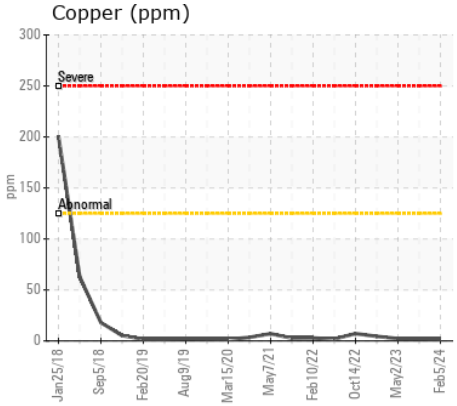
Aluminum (ppm)



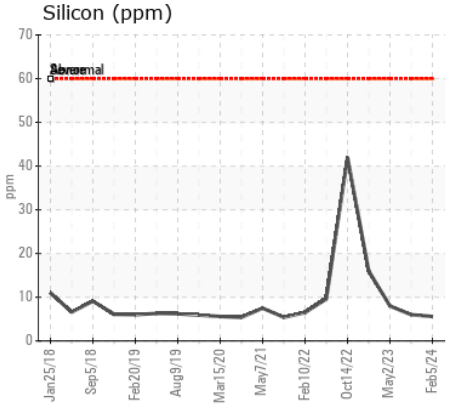
Chromium (ppm)



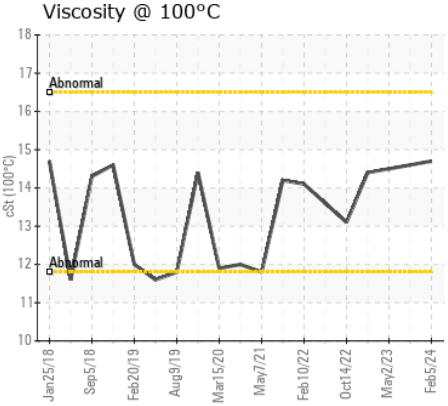
Copper (ppm)



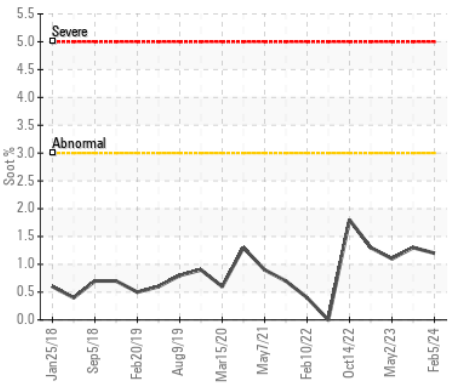
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0285142
Lab Number : 02617364
Unique Number : 5734474
Test Package : MOB 1

Received : 22 Feb 2024
Tested : 22 Feb 2024
Diagnosed : 22 Feb 2024 - Wes Davis

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.

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