



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR R926 48664
Component
Diesel Engine
Fluid
PETRO CANADA 10W40 (23 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0280962	LH0246891	LH0221953
Sample Date		Client Info		16 Jan 2024	04 Mar 2023	01 Feb 2022
Machine Age	kms	Client Info		3005	2137	1069
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	9	14	24
Chromium	ppm	ASTM D5185(m)	>5	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>15	1	2	2
Lead	ppm	ASTM D5185(m)	>30	0	0	<1
Copper	ppm	ASTM D5185(m)	>125	<1	<1	5
Tin	ppm	ASTM D5185(m)	>5	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

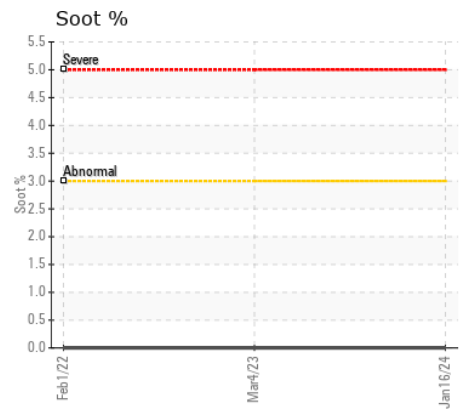
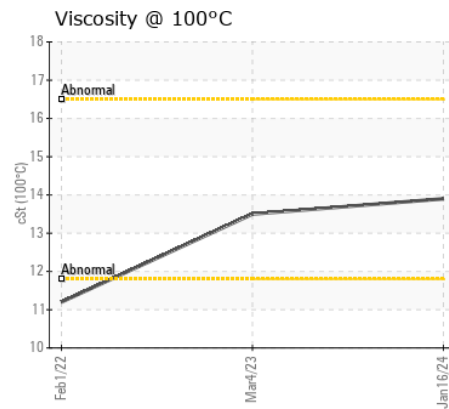
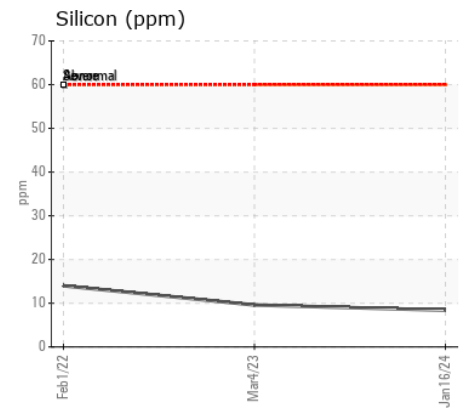
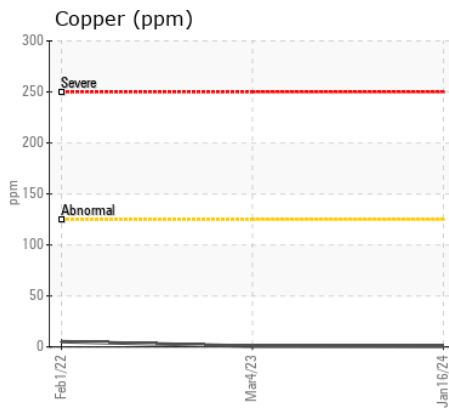
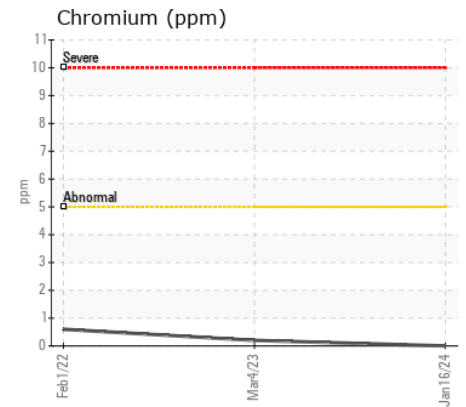
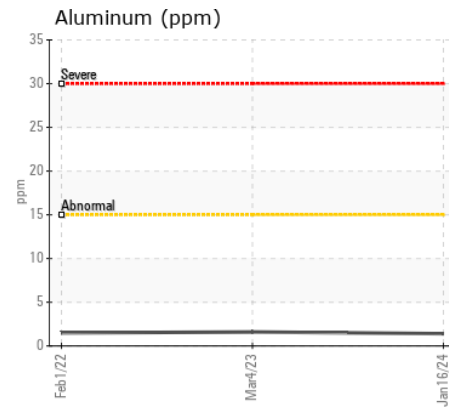
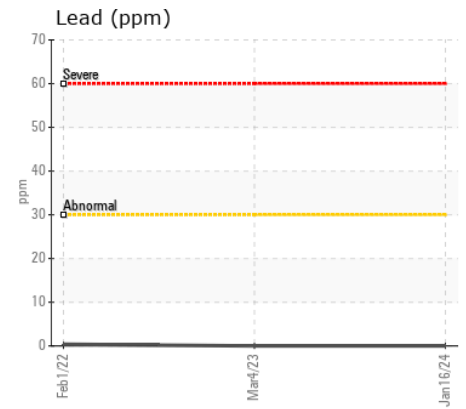
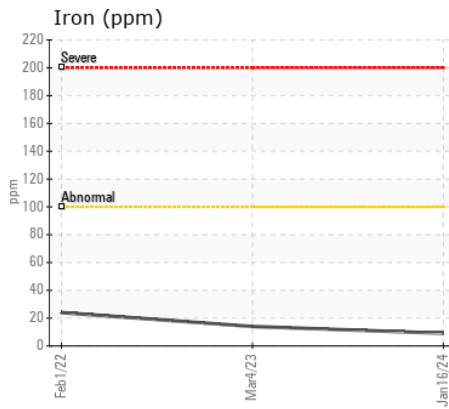
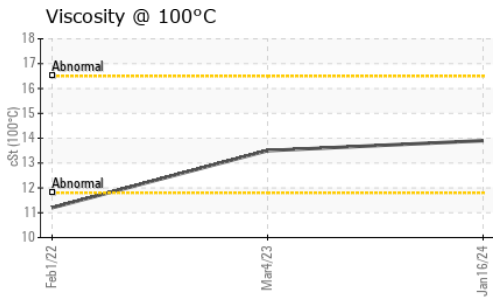
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	8	10	14
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
Fuel		WC Method	>5	<1.0	<1.0	0.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.0	7.5	4.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.5	21.0	13.4
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>20	1	2	5
Boron	ppm	ASTM D5185(m)		<1	2	37
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		58	61	58
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		961	998	1201
Calcium	ppm	ASTM D5185(m)		1032	1097	914
Phosphorus	ppm	ASTM D5185(m)		996	1094	1081
Zinc	ppm	ASTM D5185(m)		1156	1219	1289
Sulfur	ppm	ASTM D5185(m)		2657	2571	2805
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.1	15.2	8.2
Visc @ 100°C	cSt	ASTM D7279(m)		13.9	13.5	▲ 11.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0280962 **Received** : 24 Jan 2024
Lab Number : 02610850 **Diagnosed** : 25 Jan 2024
Unique Number : 5719945 **Diagnostician** : Kevin Marson
Test Package : MOB 1

MATCON
 2208 HARTLEY AVE
 COQUITLAM, BC
 CA V3K 6X3
 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.
 Validity of results and interpretation are based on the sample and information as supplied.

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