



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR L556 066526-1826
Component
Diesel Engine
Fluid
PETRO CANADA DURON UHP 5W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0238264	LH	LH0238245
Sample Date		Client Info		03 Mar 2024	21 Sep 2023	21 Jan 2023
Machine Age	hrs	Client Info		2500	2000	1000
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	6	6	16
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	2	1	3
Lead	ppm	ASTM D5185(m)	>30	<1	<1	10
Copper	ppm	ASTM D5185(m)	>125	4	9	198
Tin	ppm	ASTM D5185(m)	>5	<1	<1	2
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

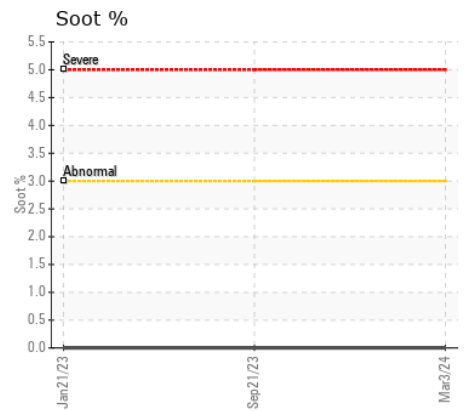
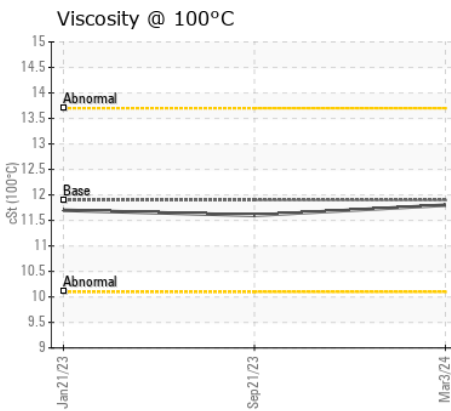
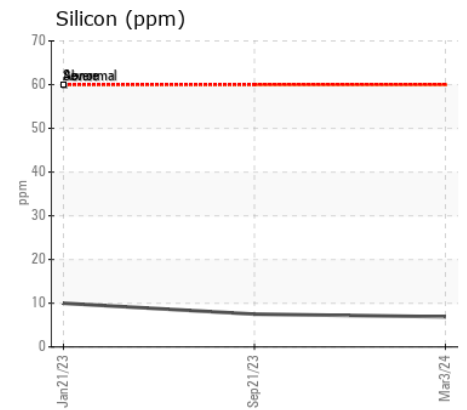
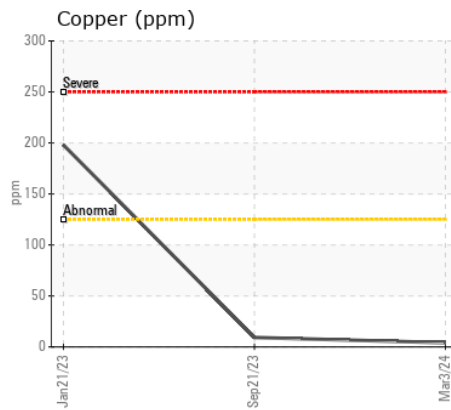
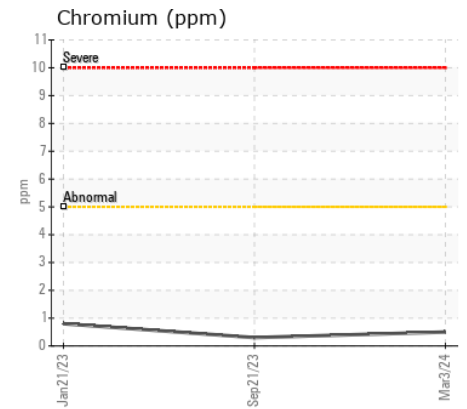
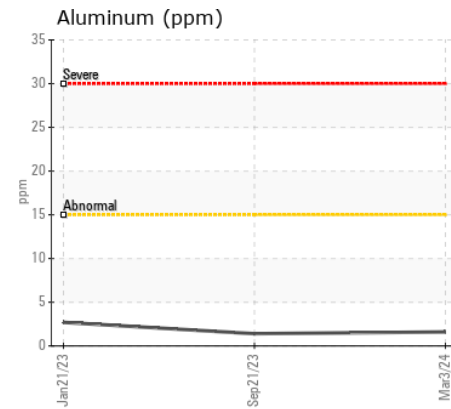
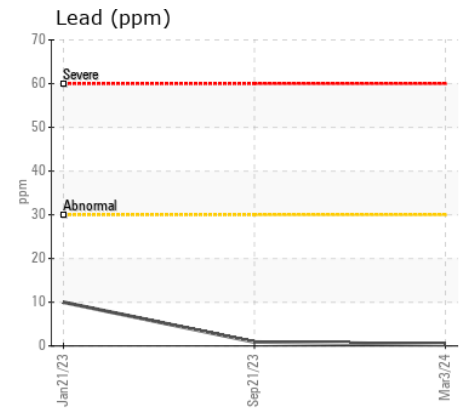
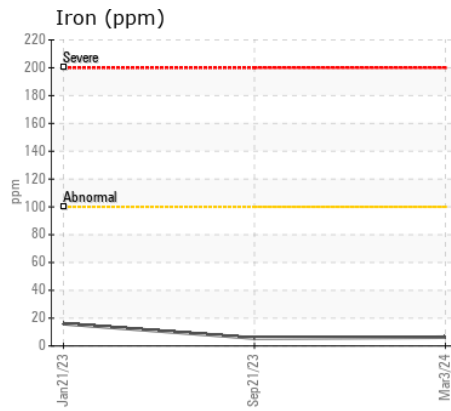
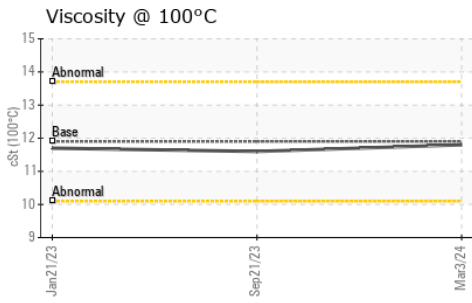
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	7	8	10
Potassium	ppm	ASTM D5185(m)	>20	4	7	4
Fuel		WC Method	>5	<1.0	<1.0	0.7
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	10.0	9.9	12.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.1	21.5	39.8
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)		4	5	3
Boron	ppm	ASTM D5185(m)	0	26	21	60
Barium	ppm	ASTM D5185(m)	0	<1	2	46
Molybdenum	ppm	ASTM D5185(m)	64	57	63	47
Manganese	ppm	ASTM D5185(m)	0	0	0	1
Magnesium	ppm	ASTM D5185(m)	1160	1109	1109	950
Calcium	ppm	ASTM D5185(m)	820	840	831	1315
Phosphorus	ppm	ASTM D5185(m)	1160	1030	970	761
Zinc	ppm	ASTM D5185(m)	1260	1200	1185	874
Sulfur	ppm	ASTM D5185(m)	3000	2954	2706	1989
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.7	20.8	51.1
Visc @ 100°C	cSt	ASTM D7279(m)	11.9	11.8	11.6	11.7



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Sample No. : LH0238264

Lab Number : 02619778

Unique Number : 5736888

Test Package : MOBCE

Received : 04 Mar 2024

Tested : 04 Mar 2024

Diagnosed : 04 Mar 2024 - Wes Davis

INDUSTRIES TL
144 RUE LAROUCHE
SAINTE MONIQUE, QC
CA G0W 2T0
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.

T:
F: