



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(336305)

Machine Id
LIEBHERR L566 057382-1332

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		LH	WC	LH
Sample Date		Client Info		07 Apr 2024	08 Feb 2024	19 Dec 2023
Machine Age	hrs	Client Info		6500	5965	5600
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

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

CONTAMINATION

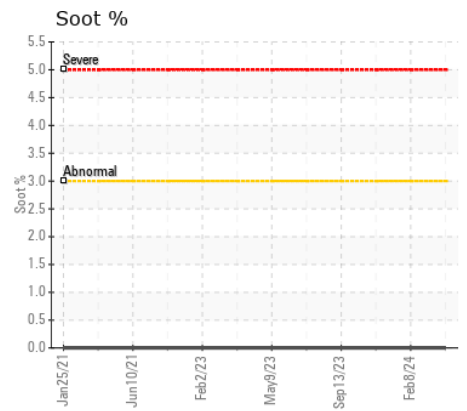
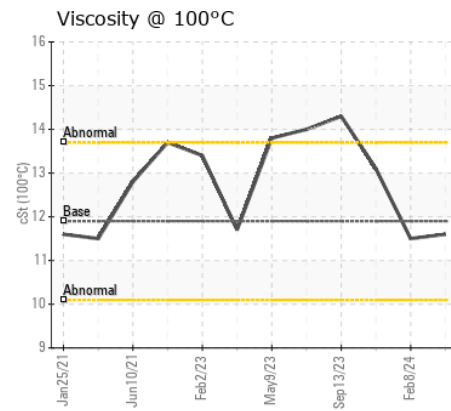
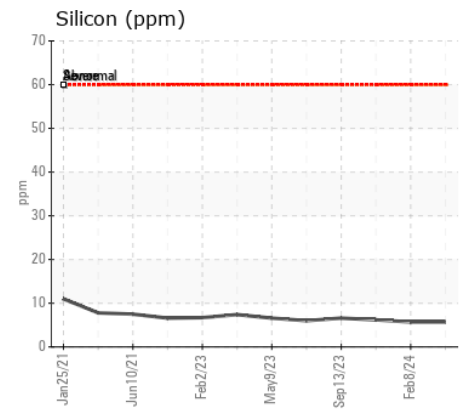
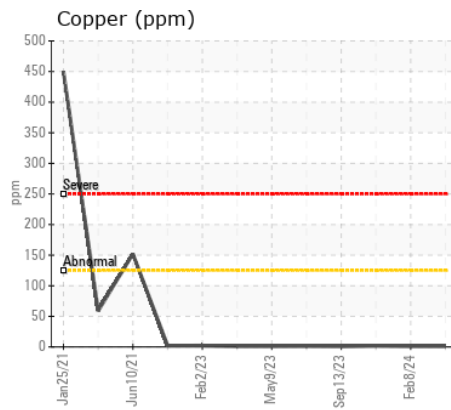
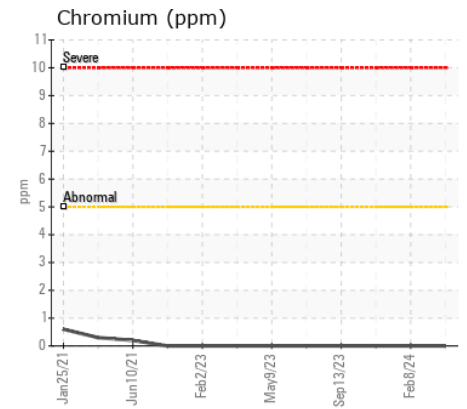
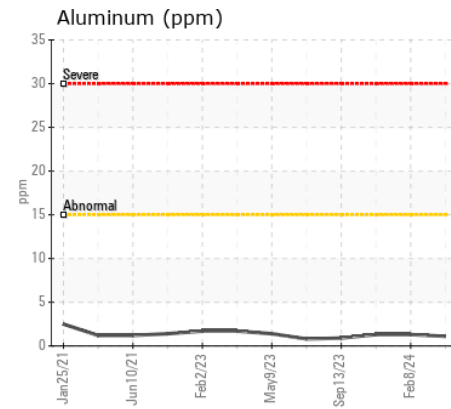
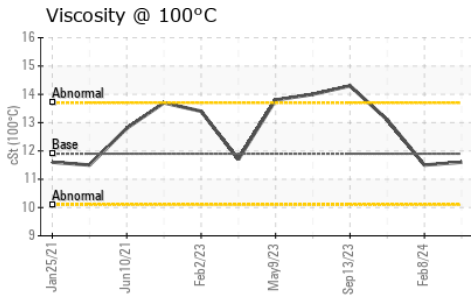
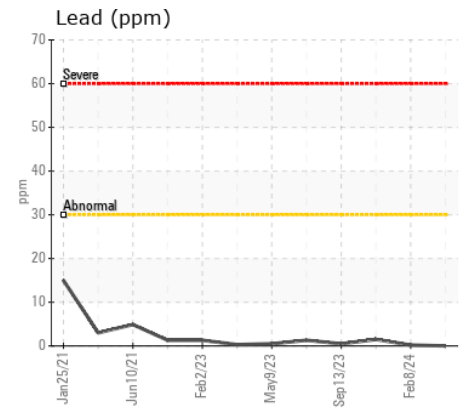
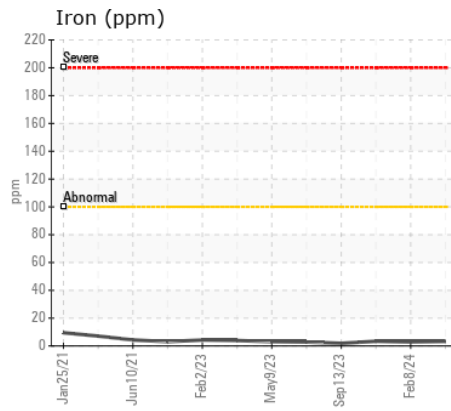
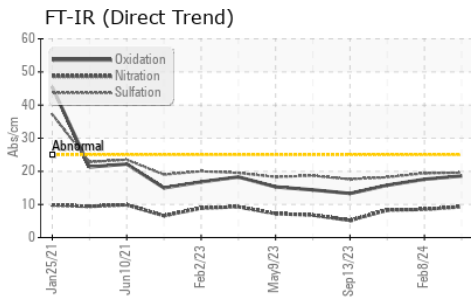
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	6	6	6
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
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	9.3	8.5	8.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.6	19.4	18.2
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	3	1
Boron	ppm	ASTM D5185(m)	0	33	33	<1
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	64	57	54	59
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1160	1124	1031	985
Calcium	ppm	ASTM D5185(m)	820	849	829	1083
Phosphorus	ppm	ASTM D5185(m)	1160	1023	990	1047
Zinc	ppm	ASTM D5185(m)	1260	1207	1131	1195
Sulfur	ppm	ASTM D5185(m)	3000	2815	2858	2759
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.6	17.6	15.8
Visc @ 100°C	cSt	ASTM D7279(m)	11.9	11.6	11.5	13.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH
Lab Number : 02631927
Unique Number : 5773080
Test Package : MOB 1
Received : 29 Apr 2024
Tested : 29 Apr 2024
Diagnosed : 29 Apr 2024 - Wes Davis

CGC DIVISION GYPSUM
 7200 RUE NOTRE-DAME EST
 MONTREAL, QC
 CA H1N 3L6
 Contact: YVES CHEVALIER

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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