



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR L556 070863-1826
Component
Diesel Engine
Fluid
SAE 10W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0257182	LH0257204	LH0257171
Sample Date		Client Info		16 Feb 2024	15 Dec 2023	18 May 2023
Machine Age	hrs	Client Info		5005	4000	978
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	3	3	5
Chromium	ppm	ASTM D5185(m)	>5	0	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>15	1	2	1
Lead	ppm	ASTM D5185(m)	>30	<1	0	3
Copper	ppm	ASTM D5185(m)	>125	1	1	72
Tin	ppm	ASTM D5185(m)	>5	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

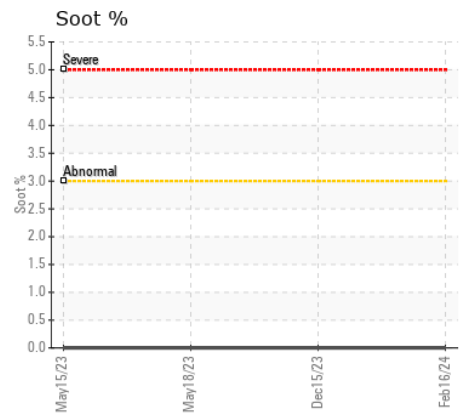
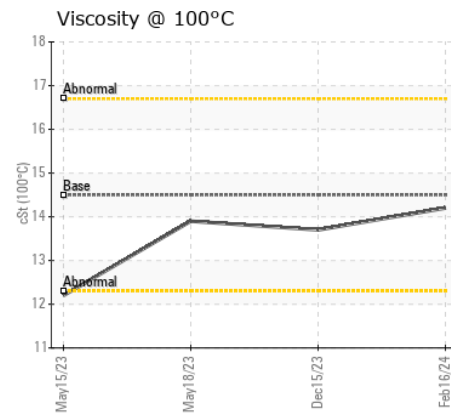
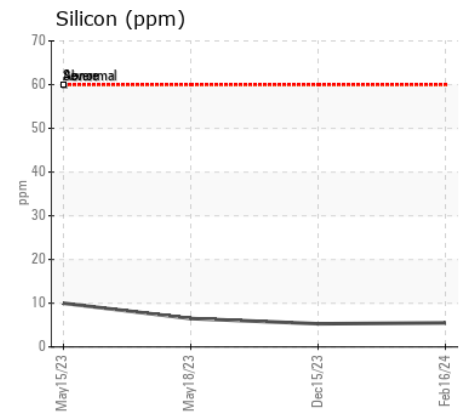
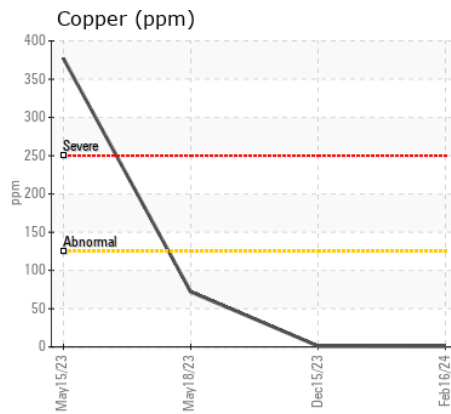
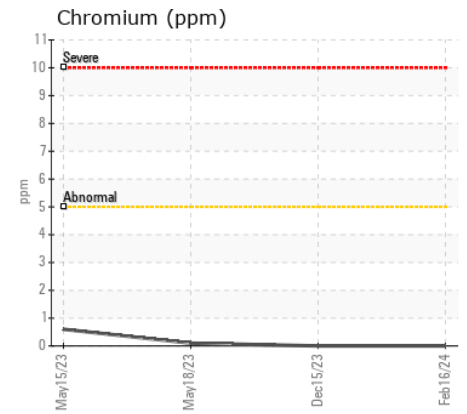
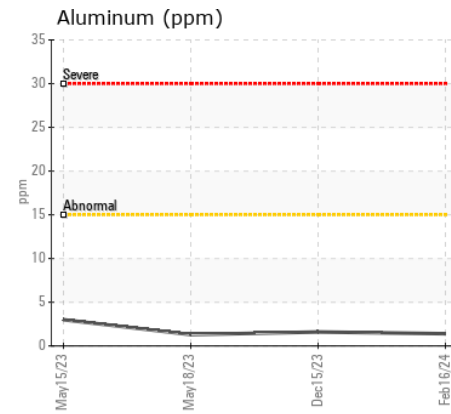
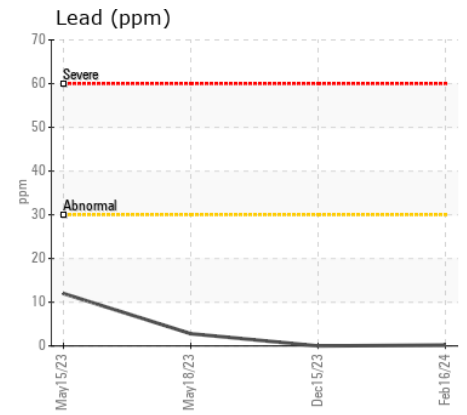
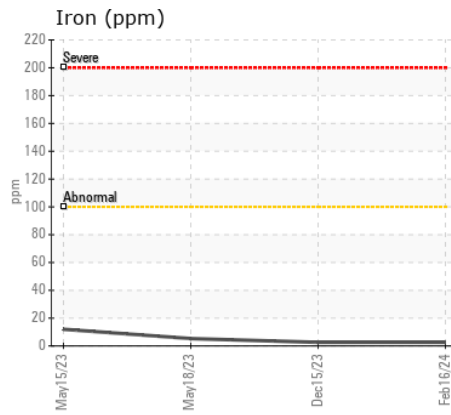
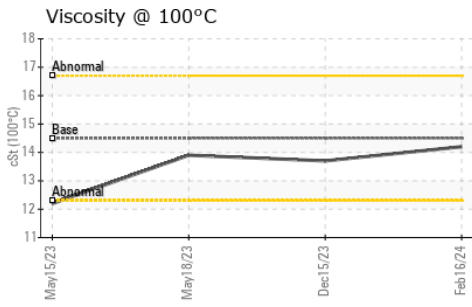
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	6	5	6
Potassium	ppm	ASTM D5185(m)	>20	<1	3	<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	6.8	7.0	7.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.0	18.0	20.4
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)	>401	<1	1	1
Boron	ppm	ASTM D5185(m)		<1	<1	6
Barium	ppm	ASTM D5185(m)		0	0	3
Molybdenum	ppm	ASTM D5185(m)		57	58	56
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		959	957	959
Calcium	ppm	ASTM D5185(m)		1058	1053	1094
Phosphorus	ppm	ASTM D5185(m)		1006	986	1048
Zinc	ppm	ASTM D5185(m)		1170	1151	1139
Sulfur	ppm	ASTM D5185(m)		2708	2648	2462
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.6	14.7	17.8
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	14.2	13.7	13.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0257182
Lab Number : 02618902
Unique Number : 5736012
Test Package : MOBCE

PRODUITS FORESTIERS D.G. LTEE
 313 RANG ST-JOSEPH
 STE-AURELIE, QC
 CA G0M 1M0
 Contact: Roger .

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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