



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH50M 138820-1216
Component
Transmission (Manual)
Fluid
TDTO FLUID SAE 10W (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH	LH	LH0260711
Sample Date		Client Info		01 May 2024	11 Dec 2023	26 May 2023
Machine Age	hrs	Client Info		1000	2140	950
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Filter Changed		Client Info		None	N/A	N/A
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	14	19	11
Chromium	ppm	ASTM D5185(m)	>5	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>7	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	2	2	2
Lead	ppm	ASTM D5185(m)	>45	0	<1	<1
Copper	ppm	ASTM D5185(m)	>225	19	11	11
Tin	ppm	ASTM D5185(m)	>10	<1	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1
White Metal	scalar	Visual*	NONE	VLITE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

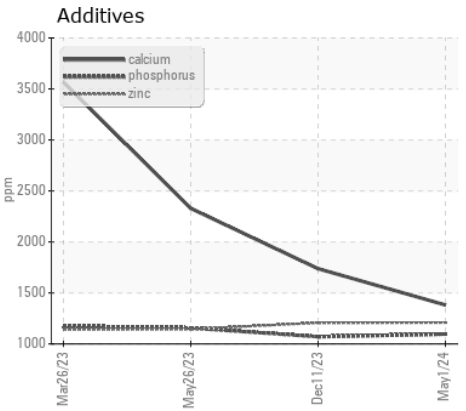
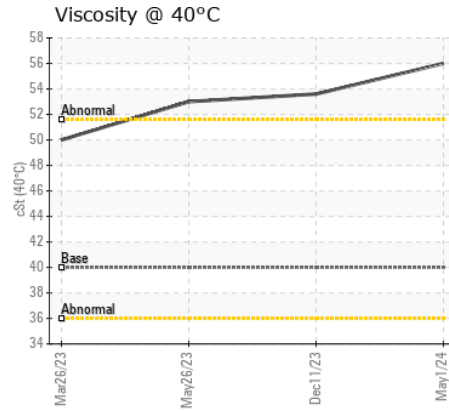
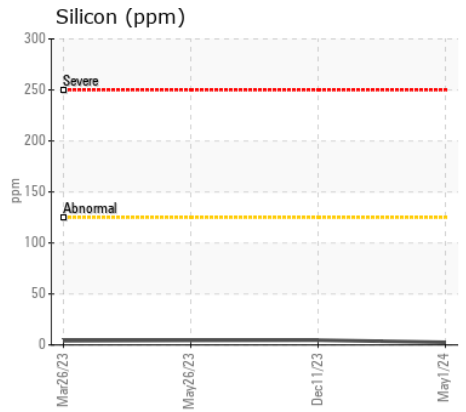
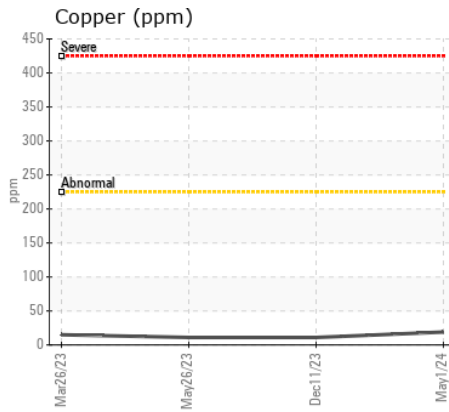
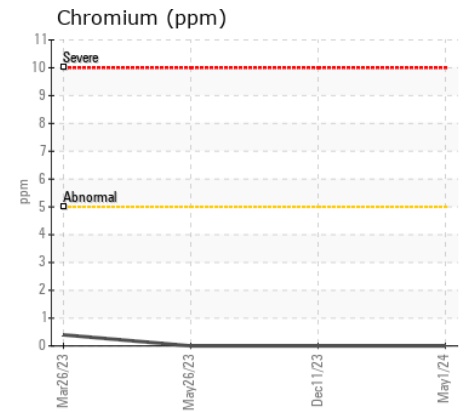
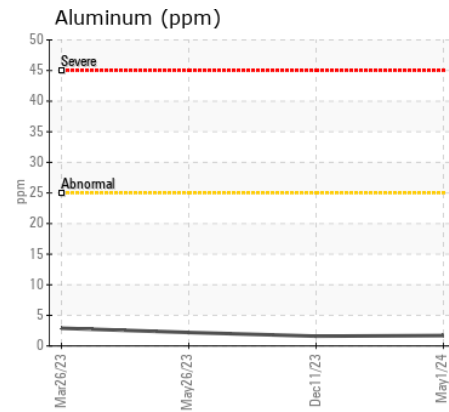
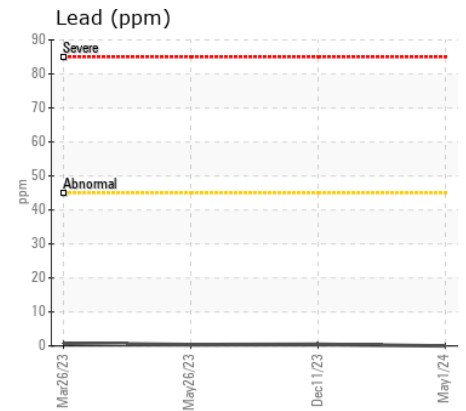
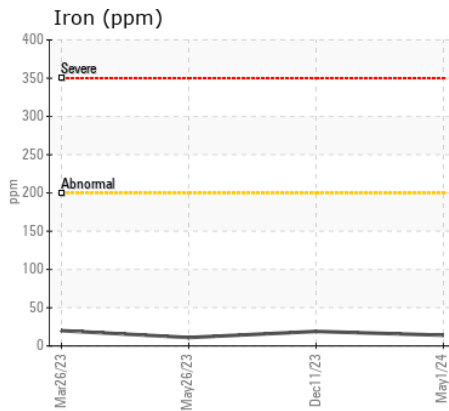
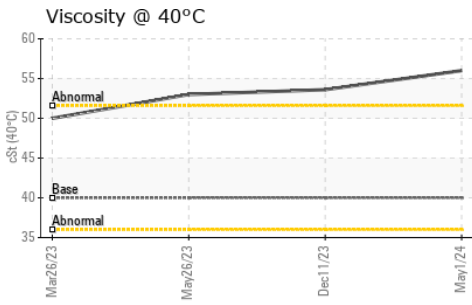
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>125	3	5	4
Potassium	ppm	ASTM D5185(m)	>20	1	<1	2
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	VLITE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		10	16	26
Boron	ppm	ASTM D5185(m)	37	23	29	28
Barium	ppm	ASTM D5185(m)	7	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	5	53	44	24
Manganese	ppm	ASTM D5185(m)		8	4	6
Magnesium	ppm	ASTM D5185(m)	40	911	749	449
Calcium	ppm	ASTM D5185(m)	2650	1382	1738	2329
Phosphorus	ppm	ASTM D5185(m)	1050	1097	1071	1156
Zinc	ppm	ASTM D5185(m)	1075	1209	1207	1145
Sulfur	ppm	ASTM D5185(m)	5750	3771	4545	5996
Visc @ 40°C	cSt	ASTM D7279(m)	40	56.0	53.6	53.0



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH
Lab Number : 02632860
Unique Number : 5774013
Test Package : MOB 1
Received : 02 May 2024
Tested : 02 May 2024
Diagnosed : 02 May 2024 - Kevin Marson

D.P. Metal Inc.
 373A Chemin Grande-Ligne
 Saint-Urbain Premier, QC
 CA J0S 1Y0
 Contact: Service .

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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 F: