



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH30M 112545-1253
Component
Swing Drive
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0289580	LH0270125	LH0247425
Sample Date		Client Info		06 May 2024	27 Sep 2023	13 Dec 2022
Machine Age	hrs	Client Info		15168	1297	10473
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		None	None	None
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>1450	30	30	390
Chromium	ppm	ASTM D5185(m)	>11	0	0	5
Nickel	ppm	ASTM D5185(m)	>3	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>4	0	0	<1
Lead	ppm	ASTM D5185(m)	>4	0	1	2
Copper	ppm	ASTM D5185(m)	>542	28	30	94
Tin	ppm	ASTM D5185(m)	>38	0	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

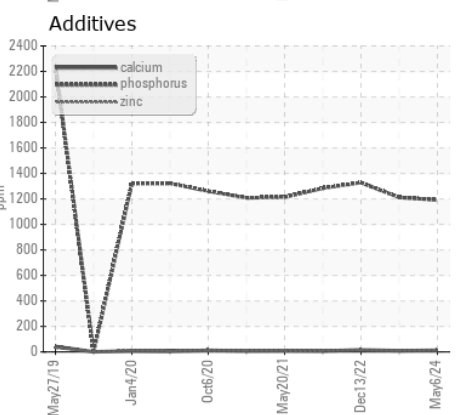
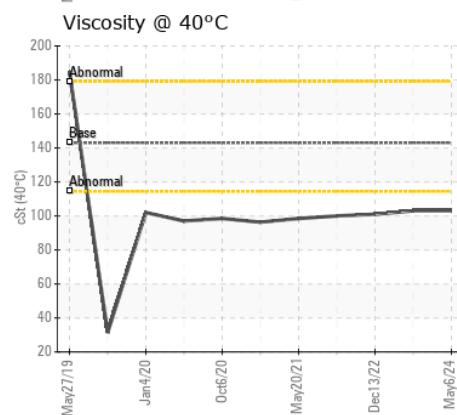
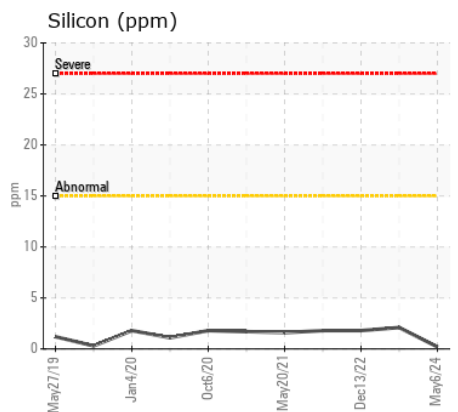
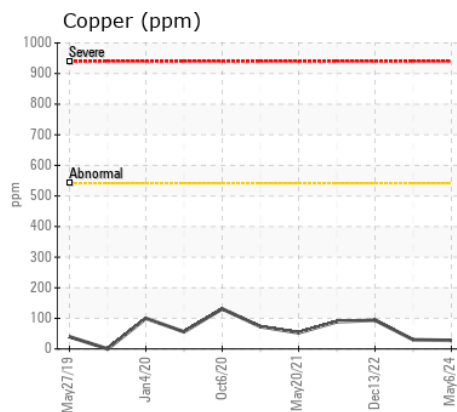
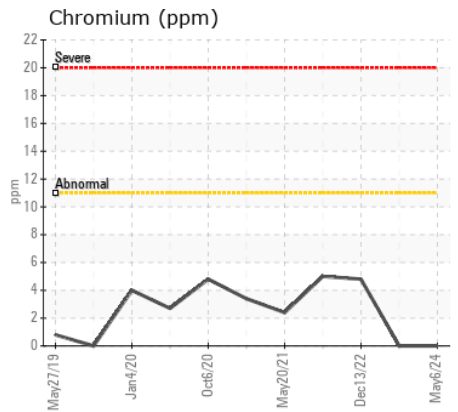
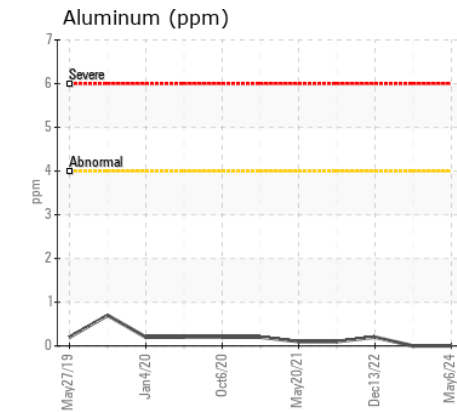
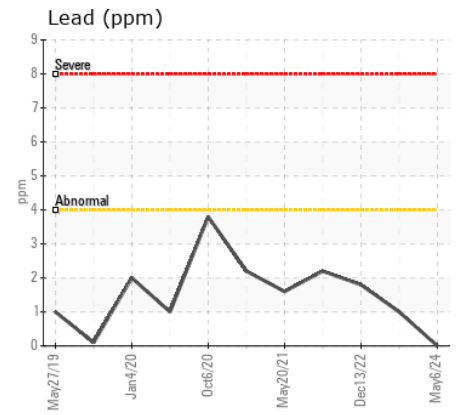
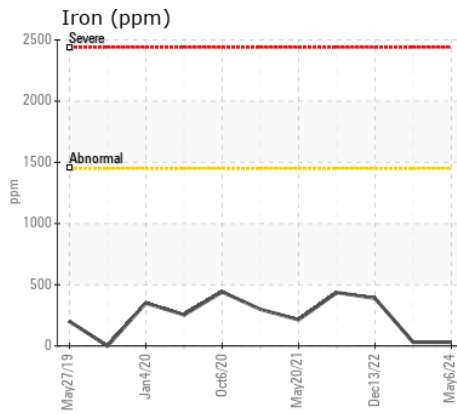
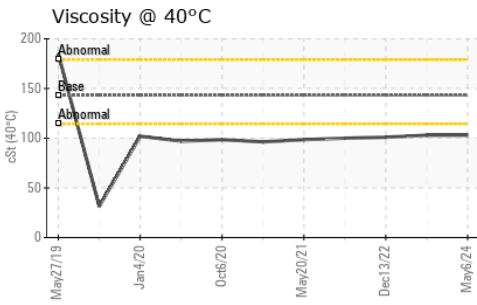
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	<1	2	2
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
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)	>170	<1	2	1
Boron	ppm	ASTM D5185(m)	400	309	304	316
Barium	ppm	ASTM D5185(m)	200	<1	<1	0
Molybdenum	ppm	ASTM D5185(m)	12	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	3
Magnesium	ppm	ASTM D5185(m)	12	1	<1	1
Calcium	ppm	ASTM D5185(m)	150	13	10	16
Phosphorus	ppm	ASTM D5185(m)	1650	1192	1212	1328
Zinc	ppm	ASTM D5185(m)	125	11	9	15
Sulfur	ppm	ASTM D5185(m)	22500	20184	21064	20781
Visc @ 40°C	cSt	ASTM D7279(m)	143	103	103	101



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0289580 **Received** : 07 May 2024
Lab Number : 02633949 **Tested** : 07 May 2024
Unique Number : 5775102 **Diagnosed** : 07 May 2024 - Wes Davis
Test Package : MOB 1

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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.