



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
056328-1783
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		LH0252395	LH0252388	---
Sample Date		Client Info		04 Jun 2024	11 Sep 2023	---
Machine Age	hrs	Client Info		2000	1314	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>750	285	431	---
Chromium	ppm	ASTM D5185(m)	>10	2	4	---
Nickel	ppm	ASTM D5185(m)	>5	<1	2	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	1	<1	---
Lead	ppm	ASTM D5185(m)	>5	1	2	---
Copper	ppm	ASTM D5185(m)	>250	57	60	---
Tin	ppm	ASTM D5185(m)	>10	5	3	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

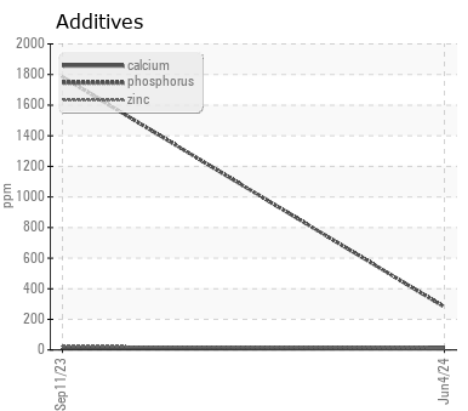
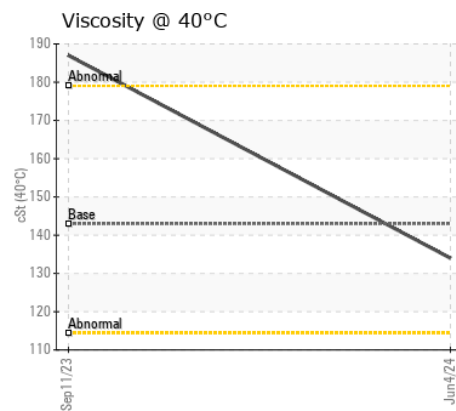
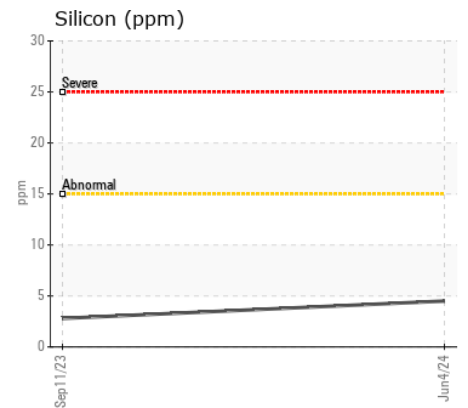
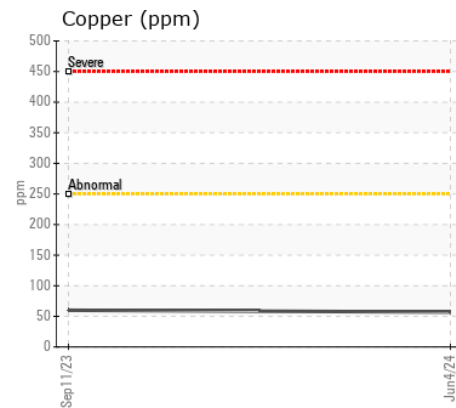
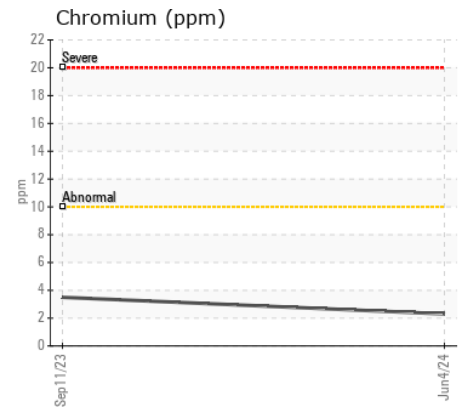
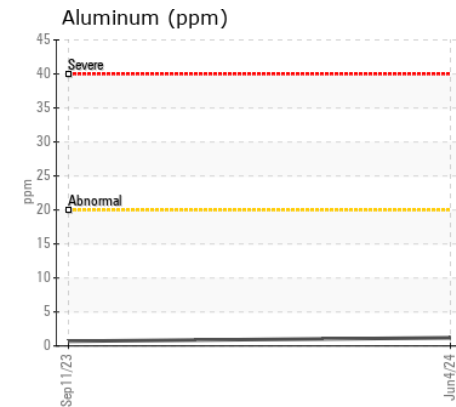
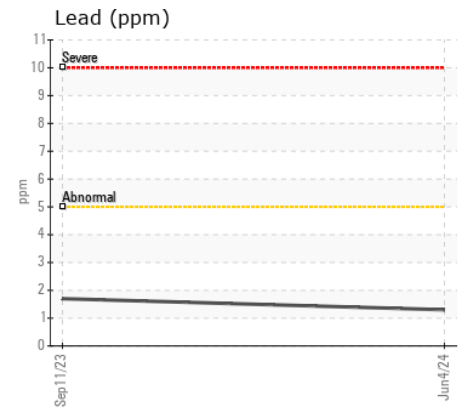
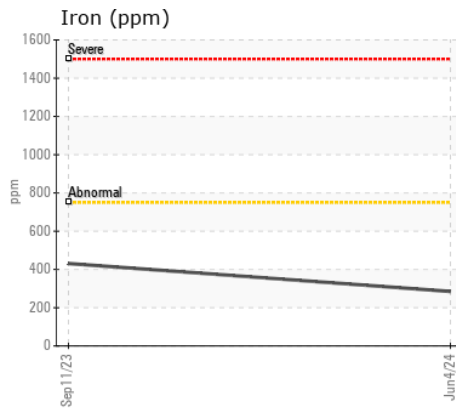
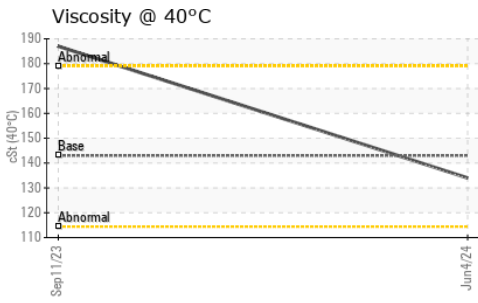
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	4	3	---
Potassium	ppm	ASTM D5185(m)	>20	1	1	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	Visual*	NONE	VLITE	NONE	---
Debris	scalar	Visual*	NONE	VLITE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>170	1	2	---
Boron	ppm	ASTM D5185(m)	400	2	7	---
Barium	ppm	ASTM D5185(m)	200	<1	0	---
Molybdenum	ppm	ASTM D5185(m)	12	0	2	---
Manganese	ppm	ASTM D5185(m)		2	4	---
Magnesium	ppm	ASTM D5185(m)	12	<1	1	---
Calcium	ppm	ASTM D5185(m)	150	10	16	---
Phosphorus	ppm	ASTM D5185(m)	1650	281	1785	---
Zinc	ppm	ASTM D5185(m)	125	13	23	---
Sulfur	ppm	ASTM D5185(m)	22500	16144	22433	---
Visc @ 40°C	cSt	ASTM D7279(m)	143	134	187	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0252395 **Received** : 05 Jun 2024
Lab Number : 02639972 **Tested** : 06 Jun 2024
Unique Number : 5789134 **Diagnosed** : 06 Jun 2024 - Wes Davis
Test Package : MOBCE

American Iron and Metal
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 Montreal, QC
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 Contact: Sebastien Liautaud
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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.

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F: