MOB I LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
LIEBHERR R934 056484-1550
Component
Left Final Drive
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

WEAR

All component wear rates are normal.

CONTAMINATION

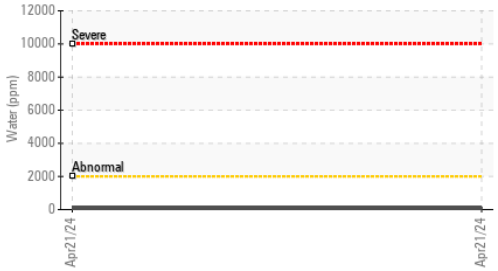
The water content is negligible. There is no indication of any contamination in the oil.

FLUID CONDITION

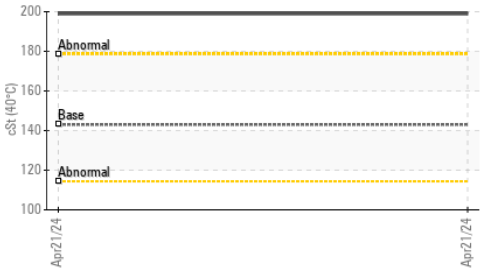
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0289428	---	---
Sample Date		Client Info		21 Apr 2024	---	---
Machine Age	hrs	Client Info		1004	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				NORMAL	---	---
Iron	ppm	ASTM D5185(m)	>1700	61	---	---
Chromium	ppm	ASTM D5185(m)	>30	1	---	---
Nickel	ppm	ASTM D5185(m)	>8	<1	---	---
Titanium	ppm	ASTM D5185(m)	>10	0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>100	<1	---	---
Lead	ppm	ASTM D5185(m)	>10	0	---	---
Copper	ppm	ASTM D5185(m)	>100	0	---	---
Tin	ppm	ASTM D5185(m)	>8	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Silicon	ppm	ASTM D5185(m)	>500	<1	---	---
Potassium	ppm	ASTM D5185(m)	>20	2	---	---
Water	%	ASTM D6304*	>0.2	0.007	---	---
ppm Water	ppm	ASTM D6304*	>2000	72	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	HAZY	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Sodium	ppm	ASTM D5185(m)	>170	4	---	---
Boron	ppm	ASTM D5185(m)	400	2	---	---
Barium	ppm	ASTM D5185(m)	200	11	---	---
Molybdenum	ppm	ASTM D5185(m)	12	0	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)	12	1	---	---
Calcium	ppm	ASTM D5185(m)	150	10	---	---
Phosphorus	ppm	ASTM D5185(m)	1650	1076	---	---
Zinc	ppm	ASTM D5185(m)	125	14	---	---
Sulfur	ppm	ASTM D5185(m)	22500	23520	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	143	199	---	---

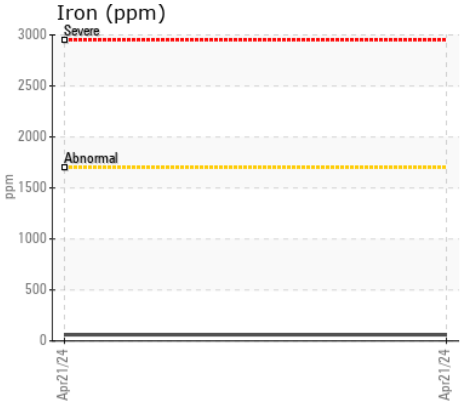
Water (KF)



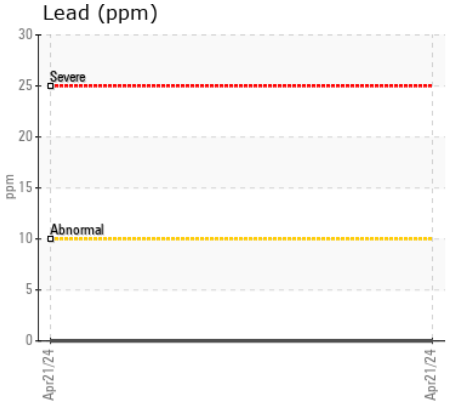
Viscosity @ 40°C



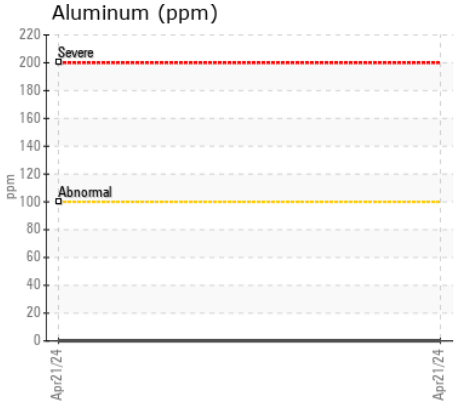
Iron (ppm)



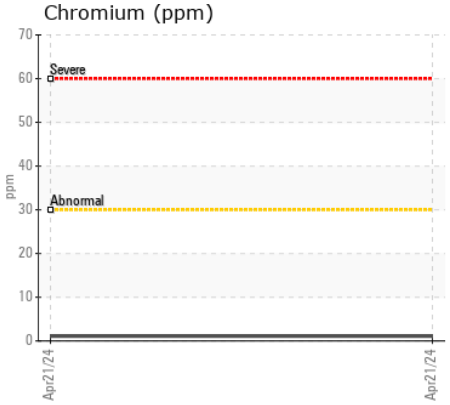
Lead (ppm)



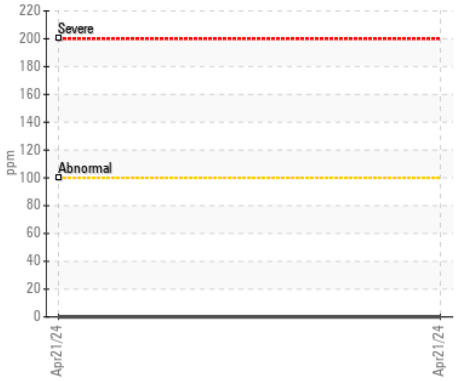
Aluminum (ppm)



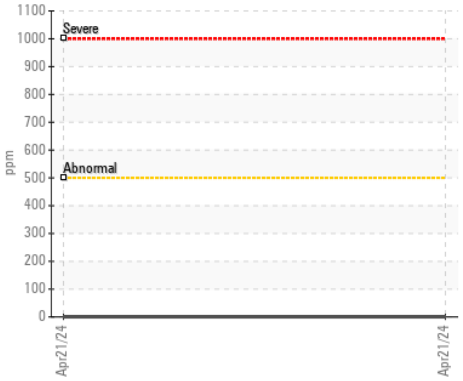
Chromium (ppm)



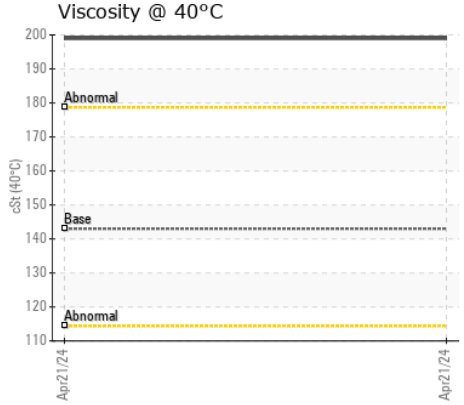
Copper (ppm)



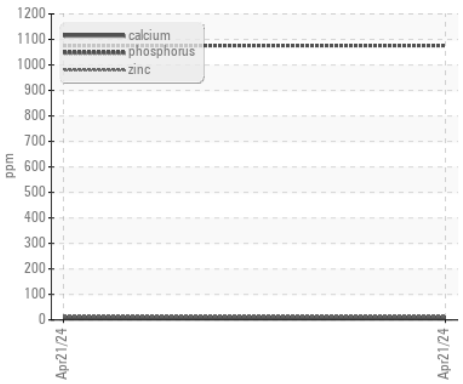
Silicon (ppm)



Viscosity @ 40°C



Additives



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: LH0289428	**Received**	: 22 Apr 2024
Lab Number	: 02630679	**Tested**	: 24 Apr 2024
Unique Number	: 5763811	**Diagnosed**	: 24 Apr 2024 - Kevin Marson
Test Package	: MOB 1 (Additional Tests: KF)		

PAUL GREER & SONS EXCAVATING LTD.
56 CLEMINSON ST.
WELLINGTON, ON
CA K0K 3L0
Contact: Service Manager

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: