WEAR
CONTAMINATION
FLUID CONDITION

NORMAL NORMAL ABNORMAL



(336343)

LIEBHERR LH50M 124905-1216

Rear Differential

GEAR OIL SAE 75W90 (--- GAL)

RECO			
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DLCO		IVAI	

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0225001	LH0182502	LH
Sample Date		Client Info		27 Jun 2024	01 Jun 2021	05 May 2021
Machine Age	hrs	Client Info		22074	4702	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		None	None	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>190	79	20	122
Chromium	ppm	ASTM D5185(m)	>2	<1	<1	1
Niekol	10 to 100	ACTM DE40E(++)	0		4	4

WEAR

All component wear rates are normal.

Chromium ppm ASTM D5185(m) >2 <1		PPIII	710 1111 20 100(111)	/100	, ,	20	1
Titanium ppm ASTM D5185(m) 0 0 0 Silver ppm ASTM D5185(m) 0 <1 <1 Aluminum ppm ASTM D5185(m) >5 1 <1 <1 Lead ppm ASTM D5185(m) >15 0 <1 1 Copper ppm ASTM D5185(m) >70 3 4 15 Tin ppm ASTM D5185(m) >2 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0	Chromium	ppm	ASTM D5185(m)	>2	<1	<1	1
Silver ppm ASTM D5185(m) 0 <1	Nickel	ppm	ASTM D5185(m)	>2	<1	<1	1
Aluminum ppm ASTM D5185(m) >5 1 <1	Titanium	ppm	ASTM D5185(m)		0	0	0
Lead ppm ASTM D5185(m) >15 0 <1	Silver	ppm	ASTM D5185(m)		0	<1	<1
Copper ppm ASTM D5185(m) >70 3 4 15 Tin ppm ASTM D5185(m) >2 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0	Aluminum	ppm	ASTM D5185(m)	>5	1	<1	<1
Tin ppm ASTM D5185(m) >2 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0	Lead	ppm	ASTM D5185(m)	>15	0	<1	1
Vanadium ppm ASTM D5185(m) 0 0 0	Copper	ppm	ASTM D5185(m)	>70	3	4	15
	Tin	ppm	ASTM D5185(m)	>2	0	0	0
White Metal scalar Visual* NONE LIGHT NONE LIGH	Vanadium	ppm	ASTM D5185(m)		0	0	0
	White Metal	scalar	Visual*	NONE	LIGHT	NONE	LIGHT
Yellow Metal scalar Visual* NONE NONE NONE NONE	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Cilicon and ACTIVIDE (CIV.) . 20 44 0 C	0.00		AOTM DE40E()	00			

CONTAMINATION

There is no indication of any contamination in the oil.

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Silicon	ppm	ASTM D5185(m)	>20	14	2	6
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	VLITE	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*	>.2	NEG	NEG	NEG
Sodium	nnm	ASTM D5185(m)		<1	1	9

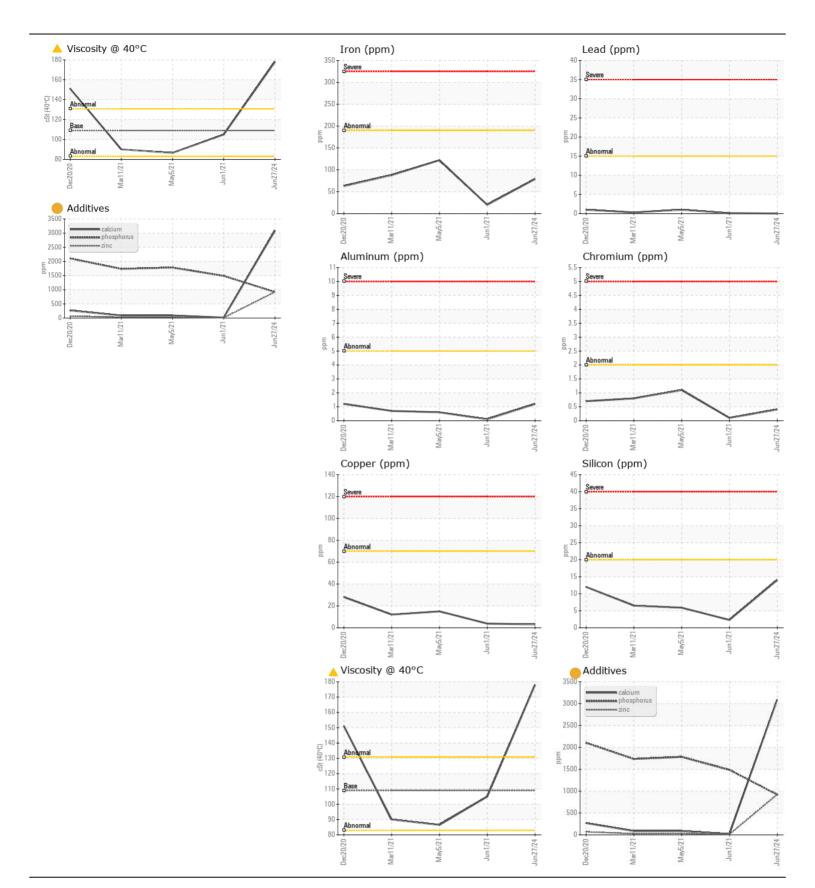
FLUID CONDITION

Viscosity of sample indicates oil is within SAE 50 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

	Emulsified water	scalar	visuai"	>.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185(m)		<1	1	9
	Boron	ppm	ASTM D5185(m)	400	37	255	13
	Barium	ppm	ASTM D5185(m)	200	<1	0	<1
	Molybdenum	ppm	ASTM D5185(m)	12	<1	<1	<1
	Manganese	ppm	ASTM D5185(m)		<1	<1	2
	Magnesium	ppm	ASTM D5185(m)	12	12	1	<1
	Calcium	ppm	ASTM D5185(m)	150	3090	18	91
	Phosphorus	ppm	ASTM D5185(m)	1650	920	1487	1783
	Zinc	ppm	ASTM D5185(m)	125	921	10	31
	Sulfur	ppm	ASTM D5185(m)	22500	11173	23357	30974
	Visc @ 40°C	cSt	ASTM D7279(m)	109	178	105	86.5

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Submitted By: ?





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: LH0225001 Lab Number : 02645550 Unique Number : 5803089 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 04 Jul 2024 **Tested** : 04 Jul 2024

Diagnosed

: 05 Jul 2024 - Kevin Marson

101-161 E 4TH AVE VANCOUVER, BC CA V5T 3C1 Contact: Service Manager

T: F:

CANFOR

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.