WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL NORMAL



(357696)
Machine Id
LIEBHERR LH50M 133969-1216

Front Left Wheel Hub

GEAR OIL SAE 90 (--- GAL)

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The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 90. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2	
Sample Number		Client Info		LH0286533	LH0230832		
Sample Date		Client Info		04 Mar 2024	19 Aug 2022		
Machine Age	hrs	Client Info		3503	1605		
Oil Age	hrs	Client Info		0	0		
Filter Age	hrs	Client Info		0	0		
Oil Changed		Client Info		Changed	Changed		
Filter Changed		Client Info		N/A	N/A		
Sample Status				ABNORMAL	ABNORMAL		
Iron	ppm	ASTM D5185(m)	>325	114	38		
Chromium	ppm	ASTM D5185(m)	>3	<1	0		

WEAR

Copper ppm levels are abnormal. Bearing and/or bushing wear is indicated.

Iron	ppm	ASTM D5185(m)	>325	114		38	
Chromium	ppm	ASTM D5185(m)	>3	<1		0	
Nickel	ppm	ASTM D5185(m)	>2	<1		<1	
Titanium	ppm	ASTM D5185(m)		0		0	
Silver	ppm	ASTM D5185(m)		0		0	
Aluminum	ppm	ASTM D5185(m)	>10	5		2	
Lead	ppm	ASTM D5185(m)	>4	2		2	
Copper	ppm	ASTM D5185(m)	>75	<u>^</u> 83	A	81	
Tin	ppm	ASTM D5185(m)	>3	0		0	
Vanadium	ppm	ASTM D5185(m)		0		0	
White Metal	scalar	Visual*	NONE	VLIT	E	LIGHT	
Yellow Metal	scalar	Visual*	NONE	NON	E	NONE	
Silicon	ppm	ASTM D5185(m)	>75	21		4	
Potoccium	nnm	ACTM DE195(m)	> 20	2		-1	

CONTAMINATION

There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	21	4	
Potassium	ppm	ASTM D5185(m)	>20	3	<1	
Water		WC Method	>0.2	NEG	NEG	
Silt	scalar	Visual*	NONE	NONE	NONE	
Debris	scalar	Visual*	NONE	NONE	VLITE	
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	
Sodium	ppm	ASTM D5185(m)		8	7	
Boron	mqq	ASTM D5185(m)	400	140	266	

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

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Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
 Sodium	ppm	ASTM D5185(m)		8	7	
Boron	ppm	ASTM D5185(m)	400	140	266	
Barium	ppm	ASTM D5185(m)	200	0	0	
Molybdenum	ppm	ASTM D5185(m)	12	2	<1	
Manganese	ppm	ASTM D5185(m)		5	3	
Magnesium	ppm	ASTM D5185(m)	12	3	2	
Calcium	ppm	ASTM D5185(m)	150	167	50	
Phosphorus	ppm	ASTM D5185(m)	1650	1247	1231	
Zinc	ppm	ASTM D5185(m)	125	115	85	
Sulfur	ppm	ASTM D5185(m)	22500	19917	21301	
Visc @ 40°C	cSt	ASTM D7279(m)	183	109	92.2	







Laboratory Sample No.

: LH0286533 Lab Number : 02620649 Unique Number : 5737759 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 07 Mar 2024 **Tested** : 07 Mar 2024

Diagnosed : 07 Mar 2024 - Kevin Marson

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.

PRIESTLY DEMOLITION

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