WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL



LIEBHERR LH40M 156305-1215

Swing Drive Fluid GEAR OIL SAE 80W90 (GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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.	Sample Number		Client Info		LH0278473		
	Sample Date		Client Info		20 Feb 2024		
	Machine Age	hrs	Client Info		536		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		None		
	Sample Status				NORMAL		
WEAR	DO.		ACTM D0104*		500		
Metal levels are typical for a new component breaking in.	PQ		ASTM D8184*	050	563		
	Iron	ppm	ASTM D5185(m)		562		
	Chromium Nickel	ppm	ASTM D5185(m) ASTM D5185(m)		2 <1		
	Titanium	ppm	ASTM D5185(III) ASTM D5185(m)	>0	0		
	Silver	ppm	ASTM D5185(m)		0		
	Aluminum	ppm	ASTM D5185(m)	<u> </u>	4		
	Lead	ppm	ASTM D5185(m)		5		
	Copper	ppm	ASTM D5185(m)	>300	175		
	Tin	ppm	ASTM D5185(m)		170		
	Vanadium	ppm	ASTM D5185(m)	710	0		
	White Metal	scalar	Visual*	NONE	VLITE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTABBINATION							
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>15	14		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)		3		
	Water		WC Method		NEG		
	Silt	scalar	Visual*	NONE	NONE		
	Debris Sand/Dirt	scalar	Visual*	NONE	NONE		
	_	scalar scalar	Visual* Visual*	NORML	NONE NORML		
	Appearance Odor		Visual*	NORML	NORML		
	Emulsified Water		Visual*	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)	>170	5		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)	400	14		
	Barium	ppm	ASTM D5185(m)		11		
	Molybdenum	ppm	ASTM D5185(m)	12	0		
	Manganese	ppm	ASTM D5185(m)		6		
	Magnesium	ppm	ASTM D5185(m)		1		
	Calcium	ppm	ASTM D5185(m)		46		
	Phosphorus	ppm	ASTM D5185(m)		2219		
	Zinc	ppm	ASTM D5185(m)		27		
	Sulfur	ppm	ASTM D5185(m)	22500	24517		

Visc @ 40°C

cSt

ASTM D7279(m) 143





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : LH0278473

Lab Number : 02617504 Unique Number : 5734614

Received **Tested** Diagnosed : 22 Feb 2024

: 23 Feb 2024

: 23 Feb 2024 - Kevin Marson

Test Package: MOB 1 (Additional Tests: PQ)

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.

Urban Mine 72 Rothwell Rd. Winnipeg, MB CA R3P 2H7 Contact: SERVICE

T: (204)774-0192

F: