WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL



Machine Id LIEBHERR LH30M 140292-1253

- 1233						
Test	LIOM	Method	Limit/Ahn	Current	History1	History2
	OOW		LIIIIUAUII		-	
•						
·	hrs					
-						
		Client Info		N/A		
Sample Status				NORMAL		
Iron	nom	ASTM D5185(m)	>450	11		
		. ,				
		. ,				
Titanium		(/		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>15	1		
Lead	ppm	ASTM D5185(m)	>4	<1		
Copper	ppm	ASTM D5185(m)	>75	11		
Tin	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Silicon	ppm	ASTM D5185(m)	>60	4		
Potassium	ppm	ASTM D5185(m)	>20	1		
Water		WC Method	>0.2	NEG		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.2	NEG		
Sodium	ppm	ASTM D5185(m)		21		
Boron	ppm	ASTM D5185(m)		97		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		9		
Calcium	ppm	ASTM D5185(m)		3509		
Phosphorus	ppm	ASTM D5185(m)		1132		
Zinc	ppm	ASTM D5185(m)		1379		
Sulfur		ASTM D5185(m)				
	Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	Test UOM Sample Number Sample Date Machine Age hrs Oil Age hrs Filter Age hrs Oil Changed Filter Changed Sample Status Iron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm White Metal scalar Yellow Metal scalar Yellow Metal scalar Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Odor scalar Emulsified Water scalar Sodium ppm Boron ppm Manganese ppm Manganese ppm Magnesium ppm Calcium ppm Phosphorus Zinc ppm	Test UOM Method Sample Number Client Info Sample Date Client Info Machine Age hrs Client Info Oil Age hrs Client Info Oil Changed Client Info Oil Changed Client Info Sample Status Iron ppm ASTM D5185(m) Chromium ppm ASTM D5185(m) Nickel ppm ASTM D5185(m) Titanium ppm ASTM D5185(m) Aluminum ppm ASTM D5185(m) Lead ppm ASTM D5185(m) Copper ppm ASTM D5185(m) Vanadium ppm ASTM D5185(m) Vanadium ppm ASTM D5185(m) White Metal scalar Visual* Silicon ppm ASTM D5185(m) Potassium ppm ASTM D5185(m) Water WC Method Silt scalar Visual* Sand/Dirt scalar Visual* Sand/Dirt scalar Visual* Sand/Dirt scalar Visual* Sodium ppm ASTM D5185(m) Boron ppm ASTM D5185(m) Barium ppm ASTM D5185(m) Barium ppm ASTM D5185(m) Manganese ppm ASTM D5185(m) Magnesium ppm ASTM D5185(m) Phosphorus ppm ASTM D5185(m) Phosphorus ppm ASTM D5185(m)	Test UOM Method Limit/Abn Sample Number Client Info Machine Age hrs Client Info Oil Age hrs Client Info Filter Age hrs Client Info Oil Changed Client Info Filter Changed Client Info Sample Status Iron ppm ASTM D5185(m) >450 Chromium ppm ASTM D5185(m) >2 Titanium ppm ASTM D5185(m) >15 Lead ppm ASTM D5185(m) >15 Lead ppm ASTM D5185(m) >75 Tin ppm ASTM D5185(m) >75 Tin ppm ASTM D5185(m) >75 Tin ppm ASTM D5185(m) >0 Vanadium ppm ASTM D5185(m) >0 White Metal scalar Visual* NONE Silicon ppm ASTM D5185(m) >0 Vater WC Method >0.2 Silt scalar Visual* NONE Sand/Dirt scalar Visual* NONE Sand/Dirt scalar Visual* NONE Sand/Dirt scalar Visual* NONE Sand/Dirt scalar Visual* NONE Sodium ppm ASTM D5185(m) Barium ppm ASTM D5185(m) Barium ppm ASTM D5185(m) Barium ppm ASTM D5185(m) Barium ppm ASTM D5185(m) Manganese ppm ASTM D5185(m)	Test	Test

Visc @ 40°C

ASTM D7279(m)

65.0





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: 02610395

: LH0278882 : 5711481 Test Package : MOB 1

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

: 22 Jan 2024 : 23 Jan 2024 Diagnostician : 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.

Markham Metals 280 Hopkins Street Whitby, ON CA L1N 2B9

Contact: Service Manager

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