

Machine Id LIEBHERR LH30M 140292-1253 Component

Transmission (Manual)

TDTO FLUID SAE 20 (--- 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) TDTO FLUID SAE 20. Please confirm.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the fluid.

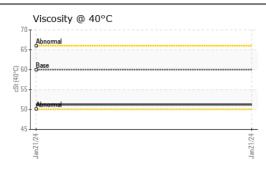
FLUID CONDITION

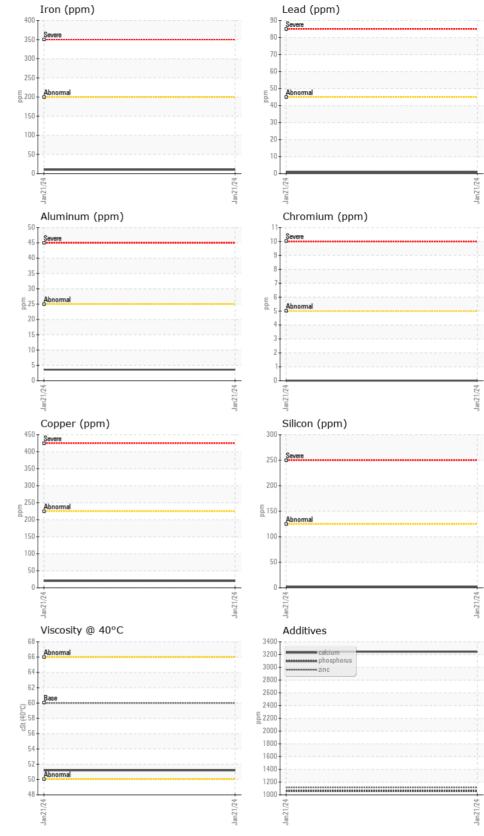
The condition of the fluid is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0278877		
Sample Date		Client Info		21 Jan 2024		
Machine Age	hrs	Client Info		1531		
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			>200	10		
Chromium	ppm	ASTM D5185(m)		0		
Nickel	ppm	ASTM D5185(m)	>5	0 <1		
Titanium	ppm	ASTM D5185(m)	>5	<1		
Silver	ppm	ASTM D5185(m) ASTM D5185(m)	>7	0		
Aluminum	ppm			4		
Lead	ppm	ASTM D5185(m) ASTM D5185(m)	>25 >45	4 <1		
Copper	ppm	ASTM D5185(m)	>45	20		
Tin	ppm	ASTM D5185(m)	>225	20 <1		
Vanadium	ppm ppm	ASTM D5185(m)	>10	<1		
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
	Scalal	visuai				
Silicon	ppm	ASTM D5185(m)	>125	2		
Potassium	ppm	ASTM D5185(m)	>20	6		
Potassium Water	ppm	ASTM D5185(m) WC Method	>20 >0.1	6 NEG		
	ppm scalar	(<i>)</i>		-		
Water		WC Method	>0.1	NEG		
Water Silt	scalar	WC Method Visual*	>0.1 NONE	NEG NONE		
Water Silt Debris	scalar scalar	WC Method Visual* Visual*	>0.1 NONE NONE	NEG NONE NONE		
Water Silt Debris Sand/Dirt	scalar scalar scalar	WC Method Visual* Visual* Visual*	>0.1 NONE NONE NONE	NEG NONE NONE NONE		
Water Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar	WC Method Visual* Visual* Visual* Visual*	>0.1 NONE NONE NORE	NEG NONE NONE NONE NORML		
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar	WC Method Visual* Visual* Visual* Visual* Visual* Visual*	>0.1 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG	 	
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar scalar scalar	WC Method Visual* Visual* Visual* Visual* Visual* Visual*	>0.1 NONE NONE NORML NORML >0.1	NEG NONE NONE NORML NORML NEG 35	 	
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar scalar ppm	WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>0.1 NONE NONE NORML NORML >0.1	NEG NONE NONE NORML NORML NEG 35 7		
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar scalar ppm ppm	WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	 >0.1 NONE NONE NORML >0.1 37 7 	NEG NONE NONE NORML NORML NEG 35 7 <1		
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar scalar scalar ppm ppm ppm	WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>0.1 NONE NONE NORML NORML >0.1	NEG NONE NONE NORML NORML NEG 35 7 <1 1		
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese	scalar scalar scalar scalar scalar ppm ppm ppm ppm	WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>0.1 NONE NONE NORML >0.1 37 7 5	NEG NONE NONE NORML NORML NEG 35 7 <1 1 1		
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	 >0.1 NONE NONE NORML >0.1 37 7 5 40 	NEG NONE NONE NORML NORML NEG 35 7 <1 1 1 14 9		
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	 >0.1 NONE NONE NORML >0.1 37 37 5 40 2650 	NEG NONE NONE NORML NORML NEG 35 7 <1 1 1 14 9 3244		
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	 >0.1 NONE NONE NORML >0.1 37 37 5 40 2650 1050 	NEG NONE NONE NORML NORML NEG 35 7 <1 1 1 14 9 3244 1059		
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	WC Method Visual* Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	 >0.1 NONE NONE NORML >0.1 >0.1 37 37 5 40 2650 1050 1075 	NEG NONE NONE NORML NORML NEG 35 7 <1 1 14 9 3244 1059 1117		
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	 >0.1 NONE NONE NORML >0.1 37 37 5 40 2650 1050 	NEG NONE NONE NORML NORML NEG 35 7 <1 1 1 14 9 3244 1059		

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Submitted By: ?







CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Recieved : 22 Jan 2024 : LH0278877 : 22 Jan 2024 : 02610328 Diagnosed : 5711414 Diagnostician : Wes Davis

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