

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id LIEBHERR LH30M 121854-1253

Front Right Wheel Hub

GEAR OIL SAE 80W90 (--- 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) GEAR OIL SAE 80W90. Please confirm.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

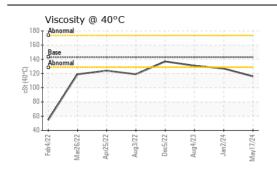
FLUID CONDITION

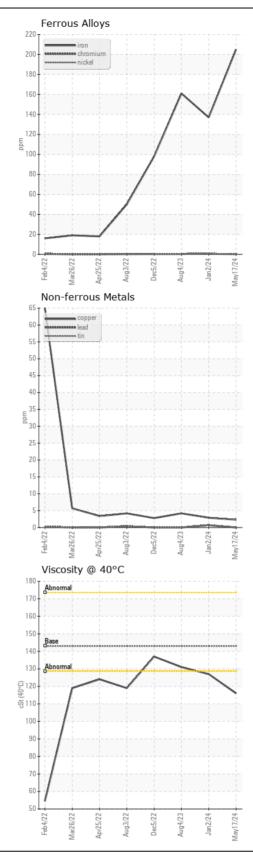
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0267099	LH0272749	LH0264394
Sample Date		Client Info		17 May 2024	02 Jan 2024	04 Aug 2023
Machine Age	hrs	Client Info		8113	6976	6000
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>450	205	137	161
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>15	0	2	1
Lead	ppm	ASTM D5185m	>4	0	<1	0
Copper	ppm	ASTM D5185m	>75	2	3	4
Tin	ppm	ASTM D5185m		0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	MODER	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>60	5	4	5
Potassium	ppm	ASTM D5185m	>20	0	2	4
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	NONE	NONE
D I I						
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Debris Sand/Dirt		*Visual *Visual	NONE NONE	-		
	scalar		_	NONE	NONE	NONE
Sand/Dirt	scalar scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt Appearance	scalar scalar scalar	*Visual *Visual	NONE	NONE NONE NORML	NONE NONE NORML	NONE NONE NORMI
Sand/Dirt Appearance Odor	scalar scalar scalar scalar	*Visual *Visual *Visual	NORML NORML	NONE NORML NORML	NONE NORML NORML	NONE NONE NORMI
Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NORML NORML >0.2	NONE NORML NORML NEG	NONE NORML NORML NEG	NONE NORMI NORMI NEG
Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar ppm	*Visual *Visual *Visual *Visual ASTM D5185m	NORML NORML >0.2 >170	NONE NORML NORML NEG 5	NONE NORML NORML NEG 2	NONE NORMI NORMI NEG 6
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m	NONE NORML >0.2 >170 400	NONE NORML NORML NEG 5 <1	NONE NORML NORML NEG 2 2	NONE NORMI NORMI NEG 6 4
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML >0.2 >170 400 200	NONE NORML NORML NEG 5 <1 <1	NONE NORML NORML NEG 2 2 2 0	NONE NORMI NORMI NEG 6 4 0
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML >0.2 >170 400 200	NONE NORML NORML NEG 5 <1 <1 <1 2	NONE NORML NORML NEG 2 2 2 0 1	NONE NORMI NORMI NEG 6 4 0 <1
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar scalar ppm ppm ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML >0.2 >170 400 200 12	NONE NORML NORML NEG 5 <1 <1 <1 2 1	NONE NORML NORML NEG 2 2 2 0 1 2	NONE NORMI NORMI NEG 6 4 0 <1 1
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 >170 400 200 12 12	NONE NORML NORML NEG 5 <1 <1 <1 2 1 2 1 3	NONE NORML NORML NEG 2 2 2 0 1 2 2 0 1 2 5	NONE NORMI NORMI NEG 6 4 0 <1 1 1 7
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML >0.2 >170 400 200 12 12 12	NONE NORML NORML NEG 5 <1 <1 <1 2 1 2 1 3 48	NONE NORML NORML NEG 2 2 2 0 1 2 0 1 2 5 40	NONE NORMI NORMI NEG 6 4 0 <1 1 7 48
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML >0.2 >170 400 200 12 12 12 12 150 1650	NONE NORML NORML NEG 5 <1 <1 2 1 2 1 3 48 991	NONE NORML NORML NEG 2 2 2 0 1 2 2 0 1 2 5 40 5 40 763	NONE NORMI NORMI NEG 6 4 0 <1 1 7 48 765

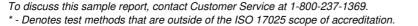
Report Id: LEC0008 [WUSCAR] 06191358 (Generated: 05/30/2024 12:17:40) Rev: 1

Contact/Location: CHRIS BARTNIK - LEC0008





AMERICAN STATE EQUIPMENT CO. : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 24 May 2024 2400 NORTH 14TH AVENUE : 28 May 2024 WAUSAU, WI : 28 May 2024 - Wes Davis US 54401 Contact: CHRIS BARTNIK cbartnik@amstate.com T: (715)675-6900 F: (715)675-9748



: LH0267099

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Received

Diagnosed

Tested

Certificate L2367

Laboratory

Sample No.

Lab Number : 06191358

Unique Number : 11048110

Test Package : CONST

Contact/Location: CHRIS BARTNIK - LEC0008 Page 2 of 2