

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id LIEBHERR LH50 142548-1216

Rear Left 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

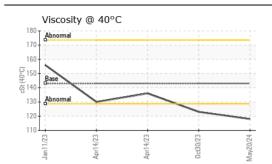
The condition of the oil is acceptable for the time in service.

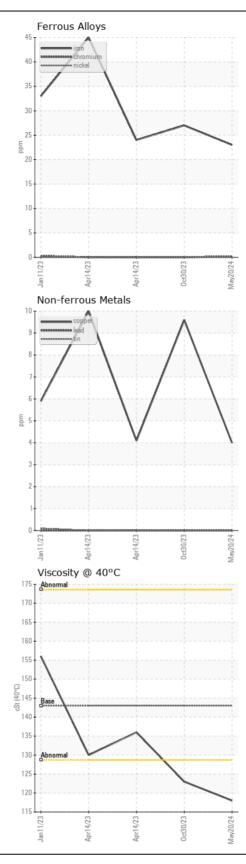
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0264765	LH0272487	LH0254796
Sample Date		Client Info		20 May 2024	30 Oct 2023	14 Apr 2023
Machine Age	hrs	Client Info		3013	1993	1008
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>325	23	27	45
Chromium	ppm	ASTM D5185m	>3	<1	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	~ _	<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	1
Lead	ppm	ASTM D5185m	>4	0	0	0
Copper	ppm	ASTM D5185m	>75	4	10	10
Tin	ppm	ASTM D5185m	>3	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	MODEF
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Cilliana		ASTM D5185m		1		7
Silicon Potassium	ppm	ASTM D5185m	>75 >20	0	2	0
Water	ppm	WC Method	>20	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	Scalal	visuai	NONL	NONE	NONL	NONL
Deblis	scalar	*Vieual		NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar scalar	*Visual *Visual	NONE NORML	NONE	NONE	NONE
	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance Odor Emulsified Water	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NORML NORML >0.2	NONE NORML NORML NEG	NONE NORML NORML NEG	NONE NORMI NORMI NEG
Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar ppm	*Visual *Visual *Visual *Visual ASTM D5185m	NONE NORML NORML >0.2 >170	NORML NORML NEG 2	NONE NORML NORML NEG 2	NONE NORMI NORMI NEG 3
Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m	NONE NORML >0.2 >170 400	NONE NORML NORML NEG 2 0	NONE NORML NORML NEG 2 1	NONE NORMI NORMI NEG 3 2
Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML >0.2 >170 400 200	NONE NORML NORML NEG 2 0 0	NONE NORML NEG 2 1 0	NONE NORMI NORMI NEG 3 2 0
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML >0.2 >170 400	NONE NORML NORML NEG 2 0 0 2	NONE NORML NEG 2 1 0 0	NONE NORMI NORMI NEG 3 2 0 <1
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	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	NORML NORML NEG 2 0 0 2 2 2 0 2 2	NONE NORML NORML NEG 2 1 0 0 2 1	NONE NORMI NORMI NEG 3 2 0 <1 2
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	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	NORML NORML NEG 2 0 0 2 2 3	NONE NORML NORML NEG 2 1 0 0 <1 11	NONE NORMI NORMI NEG 3 2 0 <1 2 6
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	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 2 0 0 2 2 3 43	NONE NORML NEG 2 1 0 0 <1 11 35	NONE NORMI NORMI NEG 3 2 0 <1 2 6 44
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar ppm 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 2 0 0 2 <1 3 43 899	NONE NORML NEG 2 1 0 0 <1 11 35 707	NONE NORMI NORMI NEG 3 2 0 <1 2 6 44 954
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 >170 400 200 12 12 12 150 1650 125	NONE NORML NORML 2 0 0 2 <1 3 43 899 23	NONE NORML NORML 2 2 1 0 0 4 1 11 35 707 30	NONE NORML NORML NEG 3 2 0 <1 2 6 44 954 30
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar ppm 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 2 0 0 2 <1 3 43 899	NONE NORML NEG 2 1 0 0 <1 11 35 707	NONE NORML NORML NORML NORML 3 2 0 <1

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Contact/Location: CHRIS BARTNIK - LEC0008

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: WearCheck USA - 501 Madison Ave., Cary, NC 27513 AMERICAN STATE EQUIPMENT CO. : 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



Unique Number : 11048113 Diagnosed Test Package : CONST Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Received

Tested

Laboratory

Sample No.

Lab Number : 06191361

: LH0264765

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