

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id LIEBHERR LH50M 1216-108671

Front Differential

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.

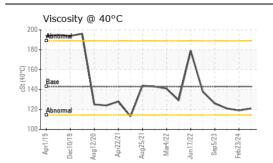
FLUID CONDITION

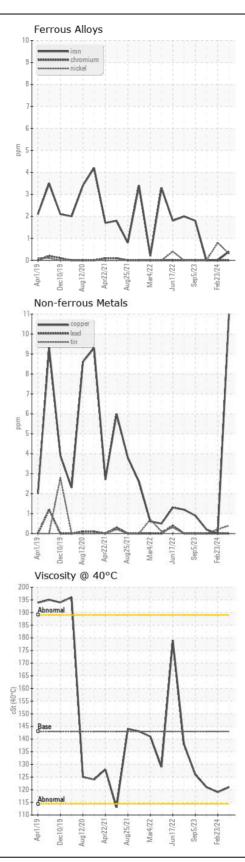
The condition of the oil is acceptable for the time in service.

TestUOMMethodLimit/AbnCurrentHistory1History2Sample NumberClient InfoILH0268413LH0258755LH0263996Sample DateClient Info14 Jun 202423 Feb 202414 Dec 2023Machine AgehrsClient InfoI212352003619125Oil AgehrsClient InfoO000Filter AgehrsClient InfoIO00Oil ChangedKrsClient InfoIN/AN/AN/ASample StatusClient InfoIN/AN/AN/ASample StatusClient InfoINORMALNORMALNORMALFinonppmASTM D5185m>150<100ChromiumppmASTM D5185m>2000NickelppmASTM D5185m>2<1<10SilverppmASTM D5185m>4000AuminumppmASTM D5185m>3<1<10LeadppmASTM D5185m>3<1<10<1TinppmASTM D5185m>3<1<10<1NoneppmASTM D5185m>3<1<10<1SiliconppmASTM D5185m>30<1<1<0<1SiliconppmASTM D5185m>30<1<1<0<1Siliconppm <t< th=""></t<>
Sample DateClient InfoI4 Jun 202423 Feb 202414 Dec 2023Machine AgehrsClient Info212352003619125Oil AgehrsClient Info000Filter AgehrsClient InfoChangedChangedChangedOil ChangedClient InfoM/AN/AN/AN/AFilter ChangedIClient InfoN/AN/AN/ASample StatusClient InfoMN/ANORMALNORMALIronppmASTM D5185m>150<100NickelppmASTM D5185m>2000NickelppmASTM D5185m>2<1<10SilverppmASTM D5185m>4000AluminumppmASTM D5185m>4000LeadppmASTM D5185m>3110<1TinppmASTM D5185m>3<100VanadiumppmASTM D5185m>3<10<1VanadiumppmASTM D5185m>3<10<1VanadiumppmASTM D5185m>3<10<1VanadiumppmASTM D5185m>3<1<10VanadiumppmASTM D5185m>3<1<10VanadiumppmASTM D5185m>3<1<10VanadiumppmASTM D51
Machine AgehrsClient Info212352003619125Oil AgehrsClient Info000Filter AgehrsClient Info000Oil ChangedClient InfoChangedChangedChangedFilter ChangedClient InfoN/AN/AN/ASample StatusClient InfoNORMALNORMALNORMALIronppmASTM D5185m>150<100NickelppmASTM D5185m>2000NickelppmASTM D5185m>2<1<10SilverppmASTM D5185m>4000AstM D5185m>40000LeadppmASTM D5185m>3<10<1TinppmASTM D5185m>3<10<1VanadiumppmASTM D5185m>3<10<1VanadiumppmASTM D5185m>3<10<1VanadiumppmASTM D5185m>3<1<10VanadiumppmASTM D5185m>3<1<10VanadiumppmASTM D5185m>3<1<10VanadiumppmASTM D5185m>3<1<10VanadiumppmASTM D5185m>3<1<10VanadiumppmASTM D5185m>3<1<1 <t< th=""></t<>
Oil AgehrsClient InfoO00Filter AgehrsClient InfoOOOOOil ChangedKrsClient InfoChangedChangedChangedChangedFilter ChangedIClient InfoN/AN/AN/AN/ASample StatusClient InfoN/ANORMALNORMALNORMALIronppmASTM D5185m>150<100ChromiumppmASTM D5185m>2O00NickelppmASTM D5185m>2<1<10SilverppmASTM D5185m>4O0<1SilverppmASTM D5185m>7<100LeadppmASTM D5185m>3<10<1TinppmASTM D5185m>3<10<1VanadiumppmASTM D5185m>3<1<10VanadiumppmASTM D5185m>3<1<10VanadiumppmASTM D5185m>3<1<10VanadiumppmASTM D5185m>3<1<10VanadiumppmASTM D5185m>3<1<10VanadiumppmASTM D5185m>3<1<10VanadiumppmASTM D5185m>3<1<10VanadiumppmASTM D5185m>3<1<10Vanadiu
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Sample StatusNORMALNORMALNORMALIronppmASTM D5185m>150<100ChromiumppmASTM D5185m>2000NickelppmASTM D5185m>2<1<10TitaniumppmASTM D5185m>2<1<10SilverppmASTM D5185m>400<1SilverppmASTM D5185m>4000LeadppmASTM D5185m>4000CopperppmASTM D5185m>3<110<1TinppmASTM D5185m>3<1<10VanadiumppmASTM D5185m>3<1<10White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONE
Iron ppm ASTM D5185m >150 <1
Chromium ppm ASTM D5185m >2 0 0 0 Nickel ppm ASTM D5185m >2 <1 <1 0 Titanium ppm ASTM D5185m >2 <1 <1 0 Silver ppm ASTM D5185m >4 0 0 <11 Silver ppm ASTM D5185m >4 0 0 0 Aluminum ppm ASTM D5185m >7 <1 0 0 Lead ppm ASTM D5185m >4 0 0 <11 Copper ppm ASTM D5185m >3 11 0 <11 Tin ppm ASTM D5185m >3 <1 <1 0 Vanadium ppm ASTM D5185m >3 <1 <1 0 Vanadium ppm ASTM D5185m >3 <1 <1 0 Vanadium ppm ASTM D5185m <5 0 0
Chromium ppm ASTM D5185m >2 0 0 0 Nickel ppm ASTM D5185m >2 <1 <1 0 Titanium ppm ASTM D5185m >2 <1 <1 0 Silver ppm ASTM D5185m >4 0 0 <11 Silver ppm ASTM D5185m >4 0 0 0 Aluminum ppm ASTM D5185m >7 <1 0 0 Lead ppm ASTM D5185m >4 0 0 <11 Copper ppm ASTM D5185m >3 11 0 <11 Tin ppm ASTM D5185m >3 <1 <1 0 Vanadium ppm ASTM D5185m >3 <1 <1 0 Vanadium ppm ASTM D5185m >3 <1 <1 0 Vanadium ppm ASTM D5185m <5 0 0
Nickel ppm ASTM D5185m >2 <1
Titanium ppm ASTM D5185m 0 0 0 <1
Silver ppm ASTM D5185m >4 0 0 0 Aluminum ppm ASTM D5185m >7 <1
Aluminum ppm ASTM D5185m >7 <1
Lead ppm ASTM D5185m >4 0 0 0 Copper ppm ASTM D5185m >135 11 0 <1
CopperppmASTM D5185m>135110<1
TinppmASTM D5185m>3<1
Vanadium ppm ASTM D5185m 0 0 0 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE
White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE
Yellow Metal scalar *Visual NONE NONE NONE NONE
Cilicon nom ACTIV DE105m - 20 - 1 - 1
Silicon ppm ASTM D5185m >30 <1 <1 <1
Potassium ppm ASTM D5185m >20 2 1 0
Water WC Method >0.2 NEG NEG NEG
Silt scalar *Visual NONE NONE NONE NONE
Debris scalar *Visual NONE NONE NONE NONE
Sand/Dirt scalar *Visual NONE NONE NONE NONE
Appearance scalar *Visual NORML NORML NORML NORML
Odor scalar *Visual NORML NORML NORML NORML
Emulsified Water scalar *Visual >0.2 NEG NEG NEG
Sodium ppm ASTM D5185m >170 2 <1
Boron ppm ASTM D5185m 400 15 0 <1
Barium ppm ASTM D5185m 200 0 0 0
Molybdenum ppm ASTM D5185m 12 0 0 0
Manganese ppm ASTM D5185m <1
Magnesium ppm ASTM D5185m 12 2 5 13
Calcium ppm ASTM D5185m 150 19 35 43
Phosphorus ppm ASTM D5185m 1650 966 824 843
Zinc ppm ASTM D5185m 125 18 15 22
Sulfur ppm ASTM D5185m 22500 26382 20970 19820
Visc @ 40°C cSt ASTM D445 143 121 119 121

Report Id: LEC0008 [WUSCAR] 06218664 (Generated: 06/29/2024 20:20:04) Rev: 1

Contact/Location: CHRIS BARTNIK - LEC0008





AMERICAN STATE EQUIPMENT CO. 2400 NORTH 14TH AVENUE WAUSAU, WI : 25 Jun 2024 - Wes Davis US 54401 Contact: CHRIS BARTNIK cbartnik@amstate.com T: (715)675-6900 F: (715)675-9748

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: LH0268413

* - 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)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Diagnosed

Tested

: 24 Jun 2024

: 25 Jun 2024

Certificate L2367

Laboratory

Sample No.

Lab Number : 06218664

Unique Number : 11096861

Test Package : CONST

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