

NORMAL WEAR CONTAMINATION NORMAL **FLUID CONDITION** NORMAL



LIEBHERR LH50M 133969-1216

Component Rear Differential

GEAR OIL SAE 75W90 (--- 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 75W90. Please confirm.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

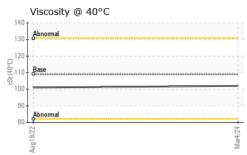
FLUID CONDITION

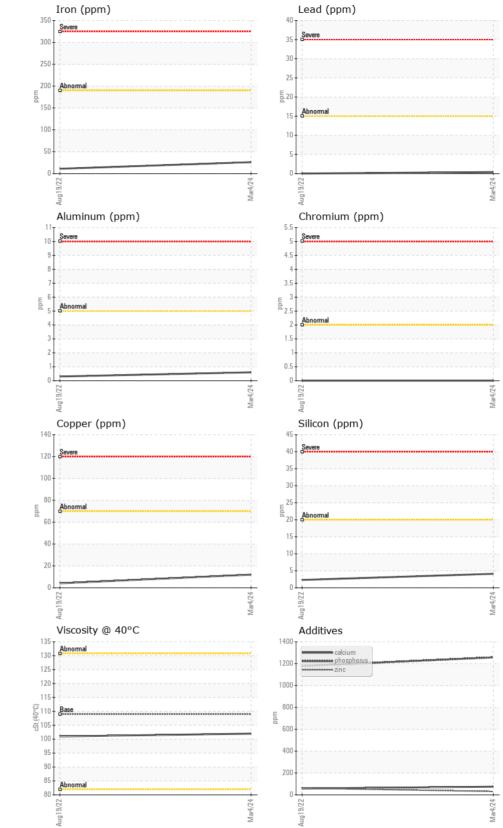
The condition of the oil is acceptable for the time in service.

TestUOMMethodLim/AnCurrentHistory1History2Sample NumberClient InfoIH 0280530IH 0230833Machine AgehrsClient InfoIH 02805301605Machine AgehrsClient InfoIH 000Filter AgehrsClient InfoIHIH 000Oil AgehrsClient InfoIHChangedChangedChangedOil ChangedClient InfoIHN/AN/ASample StatusViriantN/ANORMALIronppmASTMD51850>1000NickelppmASTMD51850>200NickelppmASTMD51850>200SilverppmASTMD51850>200AluminumppmASTMD51850>5<1AgadppmASTMD51850>200VanadumppmASTMD51850>200VanadumppmASTMD51850>21Vellow MetalScalarVisual*NONENONENONEVanadumppmASTMD51850>21<SiltornppmASTMD51850>21<Vellow MetalScalarVisual*NONENONE <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Sample DateClient Info04 Mar 202419 Aug 2022Machine AgehrsClient Info35031605Oil AgehrsClient Info00Filter AgehrsClient InfoChangedChangedOil ChangedClient InfoNAN/AN/AFilter ChangedClient InfoNAN/AN/ASample StatusClient InfoNAN/ANORMALIronppmASTMD5185(m)>19026111ChromiumppmASTMD5185(m)>200NickelppmASTMD5185(m)>200SilverppmASTMD5185(m)>5<1<1LeadppmASTMD5185(m)>70124VanadiumppmASTMD5185(m)>200VanadiumppmASTMD5185(m)>200Yellow MetalscalarVisual*NONENONEILGHTYellow MetalscalarVisual*NONENONENONESiliconppmASTMD5185(m)>201<1<Yellow MetalscalarVisual*NONENONENONESiliconppmASTMD5185(m)>201<1<SiliconppmASTMD5185(m)20NONENONE <td< th=""><th>Test</th><th>UOM</th><th>Method</th><th>Limit/Abn</th><th>Current</th><th>History1</th><th>History2</th></td<>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine AgehrsClient InfoI35031605Oil AgehrsClient Info00Filter AgehrsClient InfoChangedChangedOil ChangedClient InfoN/AN/AFilter ChangedQClient InfoN/AN/ASample StatusClient InfoN/AN/AN/AIronppmASTM D5185(m)>19026111ChromiumppmASTM D5185(m)>200NickelppmASTM D5185(m)>200SilverppmASTM D5185(m)>200AluminumppmASTM D5185(m)>5<1<1<LeadppmASTM D5185(m)>1<10VanadiumppmASTM D5185(m)>200VanadiumppmASTM D5185(m)>200VanadiumppmASTM D5185(m)>200SiliconppmASTM D5185(m)>201<1SiliconppmASTM D5185(m)>201<1SiliconppmASTM D5185(m)>201<1SiliconppmASTM D5185(m)>201<1SiliconppmASTM D5185(m)2NONENONENONE <t< th=""><th>Sample Number</th><th></th><th>Client Info</th><th></th><th>LH0286530</th><th>LH0230833</th><th></th></t<>	Sample Number		Client Info		LH0286530	LH0230833	
Machine AgehrsClient InfoI35031605Oil AgehrsClient Info00Filter AgehrsClient InfoChangedChangedOil ChangedClient InfoN/AN/AFilter ChangedQClient InfoN/AN/ASample StatusClient InfoN/AN/AN/AIronppmASTM D5185(m)>19026111ChromiumppmASTM D5185(m)>200NickelppmASTM D5185(m)>200SilverppmASTM D5185(m)>200AluminumppmASTM D5185(m)>5<1<1<LeadppmASTM D5185(m)>1<10VanadiumppmASTM D5185(m)>200VanadiumppmASTM D5185(m)>200VanadiumppmASTM D5185(m)>200SiliconppmASTM D5185(m)>201<1SiliconppmASTM D5185(m)>201<1SiliconppmASTM D5185(m)>201<1SiliconppmASTM D5185(m)>201<1SiliconppmASTM D5185(m)2NONENONENONE <t< th=""><th>Sample Date</th><th></th><th>Client Info</th><th></th><th>04 Mar 2024</th><th>19 Aug 2022</th><th></th></t<>	Sample Date		Client Info		04 Mar 2024	19 Aug 2022	
Filter AgehrsClient Info00Oil ChangedClient InfoChangedChangedFilter ChangedClient InfoN/AN/AN/ASample StatusNORMALNORMALIronppmASTMD5185(m) >19026111ChromiumppmASTMD5185(m) >200NickelppmASTMD5185(m) >200NickelppmASTMD5185(m)-200AluminumppmASTMD5185(m)-200AluminumppmASTMD5185(m)>5<1<1LeadppmASTMD5185(m)>70124VanadiumppmASTMD5185(m)>200VanadiumppmASTMD5185(m)>200Yellow MetalscalarVisual*NONENONENONEYellow MetalscalarVisual*NONENONENONESiliconppmASTMD5185(m)>201<1Yellow MetalscalarVisual*NONENONENONESiliconppmASTMD5185(m)>201<1Yellow MetalscalarVisual*NONENONENONESoliconppmASTMD5185(m)NONENONENONESolicon <th></th> <th>hrs</th> <th>Client Info</th> <th></th> <th>3503</th> <th>1605</th> <th></th>		hrs	Client Info		3503	1605	
Oil ChangedClient InfoChangedChangedFilter ChangedClient InfoN/AN/AN/ASample StatusNORMALNORMALNORMALIronppmASTM D5186(m)>19026111ChromiumppmASTM D5186(m)>200NickelppmASTM D5186(m)>200SilverppmASTM D5186(m)>5<1<1AluminumppmASTM D5186(m)>5<1<10LeadppmASTM D5186(m)>70124VanadiumppmASTM D5186(m)>200VanadiumppmASTM D5186(m)>200ValadiumppmASTM D5186(m)>200ValadiumppmASTM D5186(m)>201<SiliconppmASTM D5185(m)>201<SiliconppmASTM D5185(m)>201<SiliconppmASTM D5185(m)>201<SiliconppmASTM D5185(m)>201<SiliconppmASTM D5185(m)>201<SoliconppmASTM D5185(m)NON	Oil Age	hrs	Client Info		0	0	
Filter Change Client Info N/A N/A N/A Sample Status Client Info N NORMAL NORMAL Iron ppm ASTMD5185(m) >190 26 111 Chromium ppm ASTMD5185(m) >2 0 0 Nickel ppm ASTMD5185(m) >2 0 0 Silver ppm ASTMD5185(m) >2 0 0 Aluminum ppm ASTMD5185(m) >5 <1 <1 Aluminum ppm ASTMD5185(m) >5 <1 0 Qopper ppm ASTMD5185(m) >2 0 0 Vanaduium ppm ASTMD5185(m) >2 0 0 Vanaduium ppm ASTMD5185(m) >20 1 <1 Vanaduium ppm ASTMD5185(m) >20 1 <1	Filter Age	hrs	Client Info		0	0	
Sample Status NORMAL NORMAL NORMAL Iron ppm ASTM05185(m) >190 26 111 Chromium ppm ASTM05185(m) >2 0 0 Nickel ppm ASTM05185(m) >2 0 0 Titanium ppm ASTM05185(m) >2 0 0 Aluminum ppm ASTM05185(m) >5 <1 <1 Lead ppm ASTM05185(m) >5 <1 0 Copper ppm ASTM05185(m) >2 0 0 Vanadium ppm ASTM05185(m) >2 0 0 Visual* NONE VLITE LIGHT Vanadium ppm ASTM05185(m) >20 1 < Vanadium ppm ASTM05185(m) >20 1 < Yellow Metal	Oil Changed		Client Info		Changed	Changed	
Iron ppm ASTMD5185(m) >190 26 111 Chromium ppm ASTMD5185(m) >2 0 0 Nickel ppm ASTMD5185(m) >2 0 0 Titanium ppm ASTMD5185(m) 0 0 Aluminum ppm ASTMD5185(m) >5 <1 <1 Lead ppm ASTMD5185(m) >5 <1 0 Copper ppm ASTMD5185(m) >70 12 4 Vanadium ppm ASTMD5185(m) >2 0 0 Vanadium ppm ASTMD5185(m) >20 1 Vanadium ppm ASTMD5185(m) >20 1 Vanadium ppm ASTMD5185(m) >20 1 Vanadium ppm ASTMD5185(m) >2	Filter Changed		Client Info		N/A	N/A	
Chromium ppm ASTM D5185(m) >2 0 0 Nickel ppm ASTM D5185(m) >2 0 0 Titanium ppm ASTM D5185(m) >2 0 0 Silver ppm ASTM D5185(m) >5 <1 <1 Aluminum ppm ASTM D5185(m) >5 <1 <1 Lead ppm ASTM D5185(m) >5 <1 0 Vanadium ppm ASTM D5185(m) >70 12 4 Vanadium ppm ASTM D5185(m) >2 0 0 Vanadium ppm ASTM D5185(m) >2 0 0 Vanadium ppm ASTM D5185(m) >20 1 <1 Vanadium ppm ASTM D5185(m) >20 1 <1 Visual* NONE NONE NONE	Sample Status				NORMAL	NORMAL	
Chromium ppm ASTM D5185(m) >2 0 0 Nickel ppm ASTM D5185(m) >2 0 0 Titanium ppm ASTM D5185(m) >2 0 0 Silver ppm ASTM D5185(m) >5 <1 <1 Aluminum ppm ASTM D5185(m) >5 <1 <1 Lead ppm ASTM D5185(m) >5 <1 0 Vanadium ppm ASTM D5185(m) >70 12 4 Vanadium ppm ASTM D5185(m) >2 0 0 Vanadium ppm ASTM D5185(m) >2 0 0 Vanadium ppm ASTM D5185(m) >20 1 <1 Vanadium ppm ASTM D5185(m) >20 1 <1 Visual* NONE NONE NONE							
NickelppmASTM D5185(m)>200TitaniumppmASTM D5185(m)00SilverppmASTM D5185(m)5<1<1AluminumppmASTM D5185(m)>5<1<1LeadppmASTM D5185(m)>15<10CopperppmASTM D5185(m)>70124TinppmASTM D5185(m)>200VanadiumppmASTM D5185(m)>200White MetalscalarVisual*NONEVLITELIGHTYellow MetalscalarVisual*NONENONENONESiliconppmASTM D5185(m)>201<1WaterWC Method>.2NEGNEGSilitscalarVisual*NONENONENONESand/DirtscalarVisual*NONENONENONEAppearancescalarVisual*NORMNORMLNORMLGodorscalarVisual*NORMNORMLNORMLAppearancescalarVisual*NORNORMLNORMLGodorscalarVisual*NORMNORMLNORMLMappearancescalarVisual*NORMNORMLNORMLBoronp	-	ppm	()	>190	-		
Titanium ppm ASTM D5185(m) 0 0 Silver ppm ASTM D5185(m) 0 0 Aluminum ppm ASTM D5185(m) >5 <1		ppm	ASTM D5185(m)	>2	-	0	
Number of the second		ppm		>2	•	÷	
Aluminum ppm ASTM D5185(m) >5 <1		ppm	ASTM D5185(m)		0	0	
Lead ppm ASTM D5185(m) >15 <1		ppm	()		-	-	
Copper ppm ASTM D5185(m) >70 12 4 Tin ppm ASTM D5185(m) >2 0 0 Vanadium ppm ASTM D5185(m) >2 0 0 White Metal scalar Visual* NONE VLITE LIGHT Yellow Metal scalar Visual* NONE NONE NONE Silicon ppm ASTM D5185(m) >20 4 2 Potassium ppm ASTM D5185(m) >20 1 <1 Water WC Method >.2 NEG NEG Sadd/Dirt scalar Visual* NONE NONE NORE Appearance scalar Visual* NOR NORML NORML Godr scalar Visual* NOR NORML NORML Appearance scalar Visual*		ppm					
Tin ppm ASTM D5185(m) >2 0 0 Vanadium ppm ASTM D5185(m) NONE 0 0 White Metal scalar Visual* NONE VLITE LIGHT Yellow Metal scalar Visual* NONE NONE NONE Silicon ppm ASTM D5185(m) >20 4 2 Potassium ppm ASTM D5185(m) >20 1 <1<		ppm	ASTM D5185(m)	>15	<1	0	
Vanadium ppm ASTM D5185(m) 0 0 0 White Metal scalar Visual* NONE VLITE LIGHT Yellow Metal scalar Visual* NONE NONE NONE NONE Silicon ppm ASTM D5185(m) >20 4 2 Potassium ppm ASTM D5185(m) >20 1 <1 Water WC Method >.2 NEG NEG Silt scalar Visual* NONE NONE NONE Sand/Dirt scalar Visual* NONE NONE NONE Appearance scalar Visual* NORML NORML NORML Godor scalar Visual* NORML NORML NORML Appearance scalar Visual* NORML NORML NORML Boron p	Copper	ppm	ASTM D5185(m)	>70	12	4	
White MetalscalarVisual*NONEVLITELIGHTYellow MetalscalarVisual*NONENONENONENONESiliconppmASTM D5185(m)>2042PotassiumppmASTM D5185(m)>201<1<1WaterWC Method>.2NEGNEGSiltscalarVisual*NONENONENONEDebrisscalarVisual*NONENONENONESand/DirtscalarVisual*NORMNORMLNORMLAppearancescalarVisual*NORMLNORMLNORMLGodorscalarVisual*NORMLNORMLNORMLBoronppmASTM D5185(m)2Q0MolybdenumppmASTM D5185(m)12<10MagnesiumppmASTM D5185(m)122<1MagnesiumppmASTM D5185(m)1207558PhosphorusppmASTM D5185(m)165012571178ZalciumppmASTM D5185(m)12531611	Tin	ppm	()	>2	0	0	
Yellow MetalscalarVisual*NONENONENONESiliconppmASTM D5185(m)>2042PotassiumppmASTM D5185(m)>201<1WaterWC Method>.2NEGNEGSiltscalarVisual*NONENONENONEDebrisscalarVisual*NONENONENONESand/DirtscalarVisual*NONENONENONEAppearancescalarVisual*NORMLNORMLNORMLOdorscalarVisual*NORMLNORMLNORMLSodiumppmASTM D5185(m)2.2NEGNEGBoronppmASTM D5185(m)20000MalganeseppmASTM D5185(m)12<1<1ManganeseppmASTM D5185(m)122<1MagnesiumppmASTM D5185(m)1207558PhosphorusppmASTM D5185(m)165012571178ZincppmASTM D5185(m)1253161	Vanadium	ppm	ASTM D5185(m)		0	0	
Silicon ppm ASTM D5185(m) >20 4 2 Potassium ppm ASTM D5185(m) >20 1 <1	White Metal	scalar	Visual*	NONE	VLITE	LIGHT	
PotassiumppmASTM D5185(m)>201<1	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
WaterWC Method>.2NEGNEGSiltscalarVisual*NONENONENONEDebrisscalarVisual*NONENONENONESand/DirtscalarVisual*NONENONENONEAppearancescalarVisual*NORMLNORMLNORMLOdorscalarVisual*NORMLNORMLNORMLEmulsified WaterscalarVisual*>.2NEGNEGSodiumppmASTM D5185(m)20QQBoronppmASTM D5185(m)200Q0MalganeseppmASTM D5185(m)12<10MagnesiumppmASTM D5185(m)122<1PhosphorusppmASTM D5185(m)1507558ZincppmASTM D5185(m)1253161	Silicon	ppm	ASTM D5185(m)	>20	4	2	
SiltscalarVisual*NONENONENONEDebrisscalarVisual*NONENONENONESand/DirtscalarVisual*NONENONENONEAppearancescalarVisual*NORMLNORMLNORMLOdorscalarVisual*NORMLNORMLNORMLNORMLEmulsified WaterscalarVisual*>.2NEGNEGSodiumppmASTM D5185(m)400257285BariumppmASTM D5185(m)20000ManganeseppmASTM D5185(m)12<10MagnesiumppmASTM D5185(m)122<1PhosphorusppmASTM D5185(m)1507558ZincppmASTM D5185(m)1253161	Potassium	ppm	ASTM D5185(m)	>20	1	<1	
DebrisscalarVisual*NONENONENONESand/DirtscalarVisual*NONENONENONEAppearancescalarVisual*NORMLNORMLNORMLNORMLOdorscalarVisual*NORMLNORMLNORMLNORMLEmulsified WaterscalarVisual*>.2NEGNEGSodiumppmASTM D5185(m)400257285BoronppmASTM D5185(m)20000MalganeseppmASTM D5185(m)12<10MagnesiumppmASTM D5185(m)122<1MagnesiumppmASTM D5185(m)1507558PhosphorusppmASTM D5185(m)1253161	Water		WC Method	>.2	NEG	NEG	
Sand/DirtscalarVisual*NONENONENONEAppearancescalarVisual*NORMLNORMLNORMLNORMLOdorscalarVisual*NORMLNORMLNORMLNORMLEmulsified WaterscalarVisual*>.2NEGNEGSodiumppmASTM D5185(m)20257285BoronppmASTM D5185(m)20000MalganeseppmASTM D5185(m)12<10MagnesiumppmASTM D5185(m)122<1MagnesiumppmASTM D5185(m)1507558PhosphorusppmASTM D5185(m)165012571178ZincppmASTM D5185(m)1253161	Silt	scalar	Visual*	NONE	NONE	NONE	
AppearancescalarVisual*NORMLNORMLNORMLNORMLOdorscalarVisual*NORMLNORMLNORMLNORMLEmulsified WaterscalarVisual*>.2NEGNEGSodiumppmASTM D5185(m)22<1BoronppmASTM D5185(m)40025772850BariumppmASTM D5185(m)20000MolybdenumppmASTM D5185(m)12<10MagnesiumppmASTM D5185(m)122<1MagnesiumppmASTM D5185(m)1507558PhosphorusppmASTM D5185(m)165012571178ZincppmASTM D5185(m)1253161	Debris	scalar	Visual*	NONE	NONE	NONE	
Odor scalar Visual* NORML NORML NORML NORML NORML Emulsified Water scalar Visual* >.2 NEG NEG Sodium ppm ASTM D5185(m) >.2 NEG NEG Boron ppm ASTM D5185(m) 400 257 285 Barium ppm ASTM D5185(m) 200 0 0 Molybdenum ppm ASTM D5185(m) 12 <1 0 Manganese ppm ASTM D5185(m) 12 <1 0 Magnesium ppm ASTM D5185(m) 12 2 <1 Phosphorus ppm ASTM D5185(m) 150 75 58 Zinc ppm ASTM D5185(m) 1650 1257 1178	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Emulsified Water scalar Visual* >.2 NEG NEG Sodium ppm ASTM D5185(m) 2 <1 Boron ppm ASTM D5185(m) 400 257 285 Barium ppm ASTM D5185(m) 200 0 0 Molybdenum ppm ASTM D5185(m) 200 0 0 Manganese ppm ASTM D5185(m) 12 <1 0 Magnesium ppm ASTM D5185(m) 12 <1 Calcium ppm ASTM D5185(m) 12 2 <1 Phosphorus ppm ASTM D5185(m) 150 75 58 Zinc ppm ASTM D5185(m) 1650 1257 1178	Appearance	scalar	Visual*	NORML	NORML	NORML	
Sodium ppm ASTM D5185(m) 2 <1	Odor	scalar	Visual*	NORML	NORML	NORML	
Boron ppm ASTM D5185(m) 400 257 285 Barium ppm ASTM D5185(m) 200 0 0 Molybdenum ppm ASTM D5185(m) 12 <1 0 Manganese ppm ASTM D5185(m) 12 <1 <1 Magnesium ppm ASTM D5185(m) 12 2 <1 Calcium ppm ASTM D5185(m) 12 2 <1 Phosphorus ppm ASTM D5185(m) 150 75 58 Zinc ppm ASTM D5185(m) 1650 1257 1178	Emulsified Water	scalar	Visual*	>.2	NEG	NEG	
Boron ppm ASTM D5185(m) 400 257 285 Barium ppm ASTM D5185(m) 200 0 0 Molybdenum ppm ASTM D5185(m) 12 <1 0 Manganese ppm ASTM D5185(m) 12 <1 <1 Magnesium ppm ASTM D5185(m) 12 2 <1 Calcium ppm ASTM D5185(m) 12 2 <1 Phosphorus ppm ASTM D5185(m) 150 75 58 Zinc ppm ASTM D5185(m) 1650 1257 1178	Sodium	maa	ASTM D5185(m)		2	<1	
Barium ppm ASTM D5185(m) 200 0 0 Molybdenum ppm ASTM D5185(m) 12 <1				400			
Molybdenum ppm ASTM D5185(m) 12 <1							
Manganese ppm ASTM D5185(m) <1			. ,				
Magnesium ppm ASTM D5185(m) 12 2 <1							
Calcium ppm ASTM D5185(m) 150 75 58 Phosphorus ppm ASTM D5185(m) 1650 1257 1178 Zinc ppm ASTM D5185(m) 125 31 61	-			12			
Phosphorus ppm ASTM D5185(m) 1650 1257 1178 Zinc ppm ASTM D5185(m) 125 31 61			· /				
Zinc ppm ASTM D5185(m) 125 31 61							
	•		(/				
	Sulfur		()				
Visc @ 40°C cSt ASTM D7279(m) 109 102 101							

Report Id: PRIKIN [WCAMIS] 02620650 (Generated: 03/07/2024 15:39:45) Rev: 1

Submitted By: ?







CALA Sample No. Received :07 Mar 2024 : LH0286530 Lab Number : 02620650 Tested : 07 Mar 2024 ISO 17025:2017 Accredited Laboratory Diagnosed Unique Number : 5737760 : 07 Mar 2024 - Wes Davis Test Package : MOB 1 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.

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

PRIESTLY DEMOLITION

3200 LLOYDTOWN AURORA RD KING, ON CA LOG 1J0 Contact: Krystal Breedeon kbreedon@priestly.ca T: F:

Laboratory