

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



Machine Id LIEBHERR L580 070558-1762 Component Rear 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.

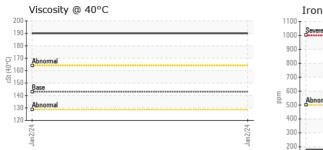
CONTAMINATION

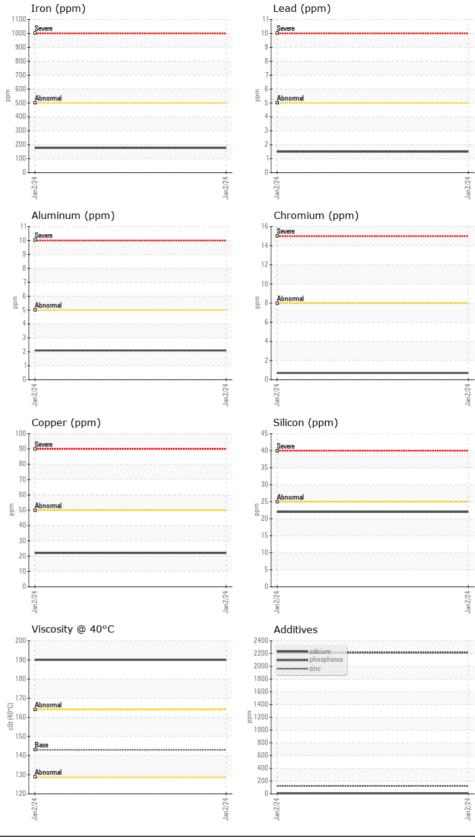
There is no indication of any contamination in the oil.

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		LH0275622		
Sample Date		Client Info		02 Jan 2024		
Machine Age	hrs	Client Info		797		
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	ppm	ASTM D5185(m)	>500	177		
Chromium	ppm	ASTM D5185(m)	>8	<1		
Nickel	ppm	ASTM D5185(m)	>5	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>5	2		
Lead	ppm	ASTM D5185(m)	>5	2		
Copper	ppm	ASTM D5185(m)	>50	22		
Tin	ppm	ASTM D5185(m)		7		
Vanadium	ppm	ASTM D5185(m)		0		
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Yellow Metal Silicon	scalar ppm	Visual* ASTM D5185(m)	NONE	NONE 22		
Silicon	ppm	ASTM D5185(m)	>25	22		
Silicon Potassium	ppm	ASTM D5185(m) ASTM D5185(m)	>25 >20	22 1		
Silicon Potassium Water	ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method	>25 >20 >0.2	22 1 NEG		
Silicon Potassium Water Silt	ppm ppm scalar	ASTM D5185(m) ASTM D5185(m) WC Method Visual*	>25 >20 >0.2 NONE	22 1 NEG MODER		
Silicon Potassium Water Silt Debris	ppm ppm scalar scalar	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual*	>25 >20 >0.2 NONE NONE	22 1 NEG MODER NONE		
Silicon Potassium Water Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual*	>25 >20 >0.2 NONE NONE NONE	22 1 NEG MODER NONE NONE	 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual*	>25 >20 >0.2 NONE NONE NONE NORML	22 1 NEG MODER NONE NONE NORML		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm scalar scalar scalar scalar scalar	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual*	>25 >20 >0.2 NONE NONE NONE NORML NORML >0.2	22 1 NEG MODER NONE NONE NORML NORML NEG		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* Visual*	>25 >20 >0.2 NONE NONE NORML NORML >0.2	22 1 NEG MODER NONE NORE NORML NEG 9		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm ppm scalar scalar scalar scalar scalar scalar gpm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>25 >20 >0.2 NONE NONE NORML >0.2 >170 400	22 1 NEG MODER NONE NORML NORML NEG 9 1		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>25 >20 >0.2 NONE NONE NORML NORML >0.2 >170 400 200	22 1 NEG MODER NONE NORML NORML NEG 9 1 0		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>25 >20 >0.2 NONE NONE NORML >0.2 >170 400	22 1 NEG MODER NONE NORML NORML NEG 9 1 0 0		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>25 >20 >0.2 NONE NORME NORML >0.2 >170 400 200 12	22 1 NEG MODER NONE NORML NORML NEG 9 1 0 0 37		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>25 >20 >0.2 NONE NONE NORML NORML >0.2 >170 400 200 12	22 1 NEG MODER NONE NORML NORML NEG 9 1 0 0 37 2		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	 >25 >20 >0.2 NONE NORML NORML >0.2 >170 400 200 12 12 150 	22 1 NEG MODER NONE NORML NORML NEG 9 1 0 0 37 2 9		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) 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)	 >25 >20 >0.2 NONE NORME NORML >0.2 >1700 400 200 12 12 150 1650 	22 1 NEG MODER NONE NORML NORML NEG 9 1 0 0 37 2 9 2216		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method 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)	 >25 >20 >0.2 NONE NORME NORML >0.2 >170 400 200 12 150 1650 125 	22 1 NEG MODER NONE NORML NORML NEG 9 1 0 0 37 2 9 2216 121		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) 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)	 >25 >20 >0.2 NONE NORME NORML >0.2 >1700 400 200 12 12 150 1650 	22 1 NEG MODER NONE NORML NORML NEG 9 1 0 0 37 2 9 2216		





HUBERT ET FILS INC Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA 回流 Sample No. Recieved : 16 Jan 2024 1012 CHEMIN DE PARC INDUSTRIEL : LH0275622 Lab Number : 02609120 Diagnosed BOIS-FRANC, QC : 16 Jan 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5710206 Diagnostician : Kevin Marson CA J9E 3A9 Test Package : MOBCE (Additional Tests: Visual) Contact: Service Manager To discuss this sample report, contact Customer Service at 1-800-268-2131. T: 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. F: