

# WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

#### Machine Id HAMM 202-1100 Component Right Final Drive Fluid GEAR OIL ISO 220 (--- GAL)

### RECOMMENDATION

Resample at the next service interval to monitor.

#### **WEAR**

All component wear rates are normal.

### CONTAMINATION

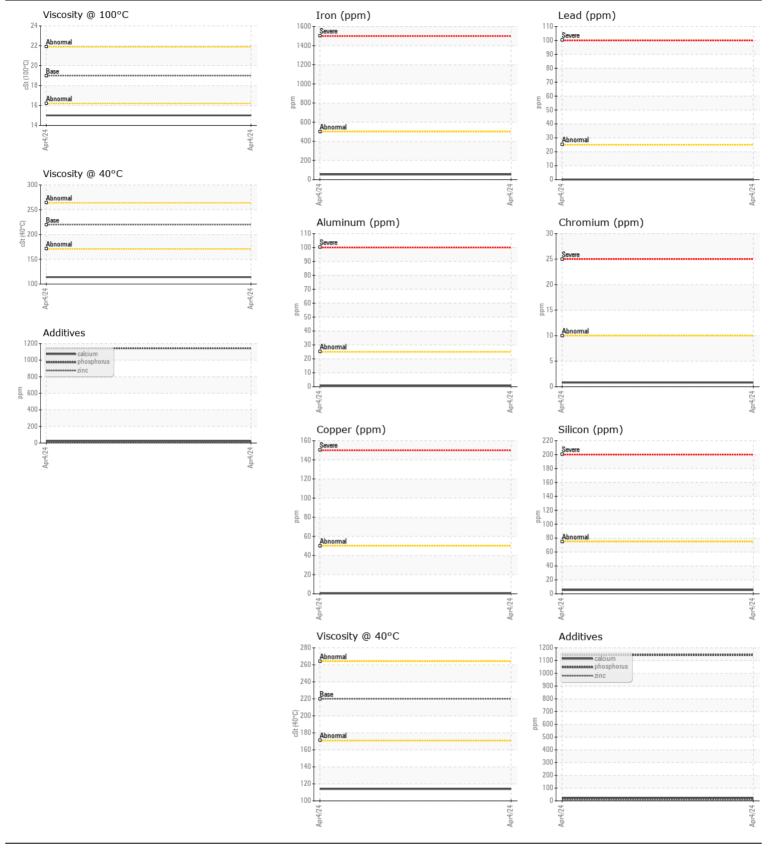
There is no indication of any contamination in the oil.

## 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		PC0088636		
Sample Date		Client Info		04 Apr 2024		
Machine Age	hrs	Client Info		960		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		N/A		
Sample Status				NORMAL		
Iron	ppm	ASTM D5185(m)	>500	53		
Chromium	ppm	ASTM D5185(m)	>10	<1		
Nickel	ppm	ASTM D5185(m)	>10	0		
Titanium	ppm	ASTM D5185(m)	>10	0		
Silver		ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>25	۰ <1		
Lead	ppm ppm	ASTM D5185(m)	>25	<1 0		
Copper	ppm	ASTM D5185(m)	>50	۰ <1		
Tin	ppm	ASTM D5185(m)	>10	< 1 0		
Vanadium	ppm	ASTM D5185(m)	>10	0		
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
	Scalal	visuai		NONE		
Silicon	ppm	ASTM D5185(m)	>75	5		
	1-1-	( )				
Potassium	ppm	ASTM D5185(m)	>20	<1		
Potassium Water				<1 NEG		
		ASTM D5185(m)	>20			
Water	ppm	ASTM D5185(m) WC Method	>20 >0.2	NEG		
Water Silt	ppm scalar	ASTM D5185(m) WC Method Visual*	>20 >0.2 NONE	NEG NONE		
Water Silt Debris	ppm scalar scalar	ASTM D5185(m) WC Method Visual* Visual*	>20 >0.2 NONE NONE	NEG NONE VLITE		
Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual*	>20 >0.2 NONE NONE NONE	NEG NONE VLITE NONE		
Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual*	>20 >0.2 NONE NONE NONE	NEG NONE VLITE NONE NORML	  	
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual*	>20 >0.2 NONE NONE NORML NORML	NEG NONE VLITE NONE NORML NORML NEG	  	
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2	NEG NONE VLITE NONE NORML NEG 1	  	
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2	NEG NONE VLITE NORML NORML NEG 1 148		
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2 50 15	NEG NONE VLITE NORML NORML NEG 1 148 <1		
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2	NEG NONE VLITE NONE NORML NEG 1 148 <1 0		
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2 50 15 15	NEG NONE VLITE NORML NORML NEG 1 148 <1 0 <1		
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	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)	>20 >0.2 NONE NONE NORML >0.2 50 15 15	NEG NONE VLITE NORML NORML NEG 1 148 <1 0 <1 5		
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	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)	>20 >0.2 NONE NONE NORML NORML >0.2 50 15 15 50 50	NEG NONE VLITE NORML NORML NEG 1 148 <1 0 <1 5 22		
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	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)	>20 >0.2 NONE NONE NORML >0.2 50 15 15 50 50 50 50 350	NEG NONE VLITE NORML NORML NEG 1 148 <1 0 <1 5 22 22 1143		
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	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) ASTM D5185(m)	>20 >0.2 NONE NONE NORM NORM >0.2 50 15 15 50 50 50 350 100	NEG NONE VLITE NORML NORML NEG 1 148 <1 0 <1 5 22 1143 10		
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	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) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2 50 15 15 50 50 350 100 12500	NEG NONE VLITE NORML NORML NEG 1 148 <1 0 <1 5 22 1143 10 23204		
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Manganese Manganese Magnesium Calcium Phosphorus Zinc Sulfur Visc @ 40°C	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	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) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORM NORM >0.2 50 15 15 50 50 350 350 100 12500 220	NEG NONE VLITE NORML NORML NEG 1 148 <1 0 <1 5 22 1143 10 23204 114		
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	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) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORM NORM >0.2 50 15 15 50 50 350 350 100 12500	NEG NONE VLITE NORML NORML NEG 1 148 <1 0 <1 5 22 1143 10 23204		

Contact/Location: Doug Francis - LAVCLI



LAVIS CONTRACTING Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. 37462A HURON ROAD : PC0088636 Received : 17 May 2024 Lab Number : 02636400 : 17 May 2024 Tested CLINTON, ON ISO 17025:2017 Accredited : 17 May 2024 - Wes Davis Unique Number : 5785562 Diagnosed CA NOM 1L0 Laboratory Test Package : MOB 1 (Additional Tests: KV100, VI) Contact: Doug Francis To discuss this sample report, contact Customer Service at 1-800-268-2131. dfrancis@lavis.ca T: (519)482-3694 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: (519)482-7886 Validity of results and interpretation are based on the sample and information as supplied.