

# WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ATTENTION

#### Machine Id HC-2205 Component Left Planetary Fluid GEAR OIL ISO 220 (--- GAL)

## RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### WEAR

All component wear rates are normal.

#### CONTAMINATION

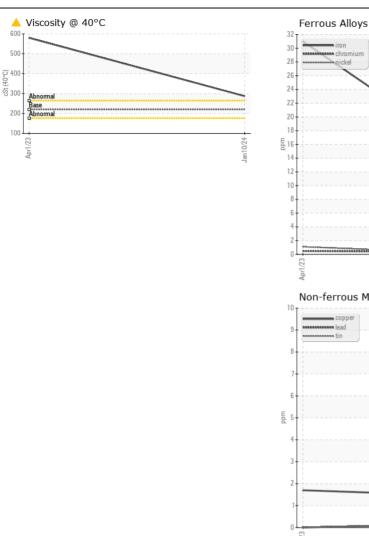
There is no indication of any contamination in the oil.

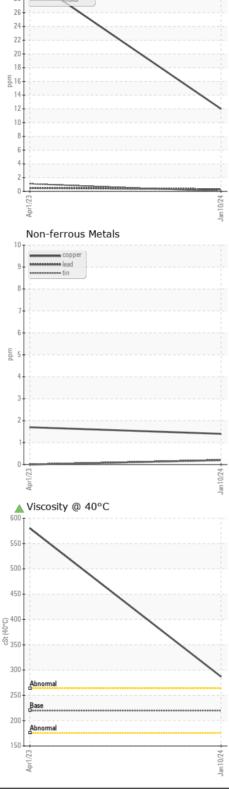
### **FLUID CONDITION**

The oil viscosity is higher than normal. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0873315	WC0746707	
Sample Date		Client Info		10 Jan 2024	01 Apr 2023	
Machine Age	hrs	Client Info		7825	7349	
Oil Age	hrs	Client Info		0	989	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		Changed	Changed	
Sample Status				ATTENTION	ATTENTION	
Iron	nnm	ASTM D5185m	>500	12	31	
Chromium	ppm ppm	ASTM D5185m	>10	<1	<1	
Nickel		ASTM D5185m	>10	0	1	
Titanium	ppm ppm	ASTM D5185m	>10	<1	<1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum		ASTM D5185m	>25	2	3	
Lead	ppm	ASTM D5185m	>25	2 <1	0	
Copper	ppm ppm	ASTM D5185m	>75	1	2	
Tin		ASTM D5185m	>10	י <1	0	
Vanadium	ppm	ASTM D5185m	>10	0	<1	
White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Scala	visuai			NONE	
Silicon	ppm	ASTM D5185m	>75	7	20	
Potassium	ppm	ASTM D5185m	>20	2	3	
Water		WC Method	>0.2	NEG	NEG	
Water Silt	scalar	WC Method *Visual	>0.2 NONE	NEG NONE	NEG NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Silt Debris	scalar scalar	*Visual *Visual	NONE NONE	NONE	NONE	
Silt Debris Sand/Dirt	scalar scalar scalar	*Visual *Visual *Visual	NONE NONE NONE	NONE NONE NONE	NONE NONE NONE	 
Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NORML	NONE NONE NONE NORML	NONE NONE NORML	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NORML NORML	NONE NONE NORE NORML NORML NEG	NONE NONE NORML NORML NEG	    
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual ASTM D5185m	NONE NONE NORML NORML >0.2	NONE NONE NORML NORML NEG 0	NONE NONE NORML NORML NEG	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar scalar ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NONE NORML NORML >0.2	NONE NONE NORML NORML NEG 0 6	NONE NONE NORML NORML NEG 1 8	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NONE NONE NORML >0.2 50 15	NONE NONE NORML NORML NEG 0 6 0	NONE NONE NORML NORML NEG 1 8 0	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML >0.2	NONE NONE NORML NORML NEG 0 6 0 <1	NONE NONE NORML NORML NEG 1 8 0 0	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 50 15 15	NONE NONE NORML NORML NEG 0 6 0 <1 0	NONE NONE NORML NORML NEG 1 8 0 0 0 <1	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NONE NORML >0.2 50 15 15	NONE NONE NORML NORML NEG 0 6 0 6 0 <1 0 <1	NONE NONE NORML NORML NEG 1 8 0 0 2 1 8 0 0 2 1 2 1	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML >0.2 50 15 15 50 50	NONE NONE NORML NORML NEG 0 6 0 6 0 <1 0 <1 0 <1 5	NONE NONE NORML NORML NEG 1 8 0 0 2 1 8 3 4 1 8 3 1 8 3 1 8 3 1 8 3 1 3 1 8 3 1 3 1	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Malybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 50 15 15 50 50 50 350	NONE NONE NORML NORML NEG 0 6 0 6 0 <1 0 <1 5 5 359	NONE NONE NORML NORML NEG 1 8 0 0 <1 <1 <1 8 415	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORME NORML >0.2 50 15 15 50 50 350 100	NONE NONE NORML NORML NEG 0 6 0 4 1 0 <1 5 359 0	NONE NONE NORML NORML NEG 1 8 0 0 2 1 8 415 0	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 50 15 15 50 50 50 350	NONE NONE NORML NORML NEG 0 6 0 6 0 <1 0 <1 5 5 359	NONE NONE NORML NORML NEG 1 8 0 0 <1 <1 <1 8 415	

Contact/Location: MICHAEL LAWSON - BUCGRA





BUCKNER HEAVY LIFT 4732 NC 54 EAST GRAHAM, NC US 27253-9215 Contact: MICHAEL LAWSON michaell@bucknercompanies.com T: (336)376-8888 1106:2012) F: (336)376-4090



 Unique Number
 : 10856282
 Diagnostician
 : Sean Felton

 Certificate L2367
 Test Package
 : CONST
 Contact:

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

 \* - 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

: 30 Jan 2024

: 31 Jan 2024

Recieved

Diagnosed

Laboratory

Sample No.

Lab Number

: WC0873315

: 06074191

Contact/Location: MICHAEL LAWSON - BUCGRA

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