

# WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ATTENTION

#### Machine Id CR1211 Component Gearbox 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.

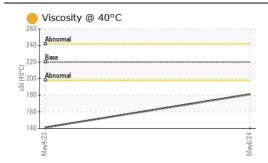
## FLUID CONDITION

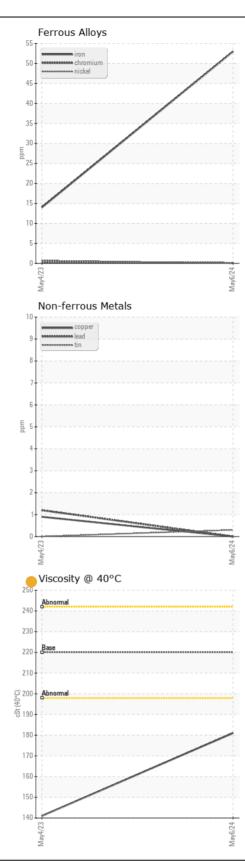
Viscosity of sample indicates oil is within ISO 150 range, advise investigate. Confirm oil type.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0922274	WC0809288	
Sample Date		Client Info		06 May 2024	04 May 2023	
Machine Age	hrs	Client Info		8656	0	
Oil Age	hrs	Client Info		1000	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		Changed	Changed	
Sample Status				ATTENTION	ATTENTION	
Iron	ppm	ASTM D5185m	>200	53	14	
Chromium	ppm	ASTM D5185m	>10	<1	<1	
Nickel	ppm	ASTM D5185m	>10	0	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	0	0	
Lead	ppm	ASTM D5185m	>50	0	1	
Copper	ppm	ASTM D5185m	>200	0	<1	
Tin	ppm	ASTM D5185m	>10	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>50	2	<1	
Potassium	ppm	ASTM D5185m	>20	1	1	
Water		WC Method	>0.2	NEG	NEG	
Silt	scalar	*Visual	NONE	NONE	NONE	
Silt Debris	scalar scalar	*Visual *Visual	NONE NONE	NONE LIGHT	NONE NONE	
Debris	scalar	*Visual	NONE	LIGHT	NONE	
Debris Sand/Dirt	scalar scalar	*Visual *Visual	NONE NONE	LIGHT	NONE	
Debris Sand/Dirt Appearance	scalar scalar scalar	*Visual *Visual *Visual	NONE NONE NORML	LIGHT NONE NORML	NONE NONE NORML	
Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NORML NORML	LIGHT NONE NORML NORML	NONE NORML NORML	
Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NORML NORML	LIGHT NONE NORML NORML NEG	NONE NORML NORML NEG	   
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m	NONE NORML NORML >0.2	LIGHT NONE NORML NORML NEG	NONE NORML NORML NEG <1	
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m	NONE NORML NORML >0.2	LIGHT NONE NORML NORML NEG 1 1	NONE NORML NORML NEG <1 0	
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 50 15	LIGHT NONE NORML NORML NEG 1 1 <1	NONE NORML NORML NEG <1 0 0	
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 50 15	LIGHT NONE NORML NEG 1 1 2 1 3 0	NONE NORML NORML NEG <1 0 0 2	
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 50 15 15	LIGHT NONE NORML NORML NEG 1 1 <1 <1 0 <1	NONE NORML NORML NEG <1 0 0 2 2	
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 50 15 50 50	LIGHT NORML NORML NEG 1 1 <1 <1 0 <1 0 <1 0 9	NONE NORML NORML NEG <1 0 0 2 <1 2 <1 4 8	
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML >0.2 50 15 15 50 50 50 350	LIGHT NONE NORML NORML NEG 1 1 3 (1) (1) (2) (2) (2) (388)	NONE NORML NORML NEG <1 0 0 2 <1 2 <1 <1 <1 8 376	
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	*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 50 350 100	LIGHT NONE NORML NORML NEG 1 1 <1 <1 0 <1 0 <1 0 9 388 60	NONE NORML NORML NEG <1 0 0 2 <1 0 2 <1 <1 8 376 120	
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML >0.2 50 15 15 50 50 50 350	LIGHT NONE NORML NORML NEG 1 1 <1 <1 0 <1 0 <1 0 9 388	NONE NORML NORML NEG <1 0 0 2 <1 2 <1 <1 <1 8 376	

Contact/Location: MICHAEL LAWSON - BUCGRA





**BUCKNER HEAVY LIFT** : WearCheck USA - 501 Madison Ave., Cary, NC 27513 :09 May 2024 4732 NC 54 EAST GRAHAM, NC : 10 May 2024 : 13 May 2024 - Sean Felton US 27253-9215 Contact: MICHAEL LAWSON michaell@bucknercompanies.com T: (336)376-8888 F: (336)376-4090



Unique Number : 11020856 Diagnosed Test Package : CONST Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - 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)

Received

Tested

Laboratory

Sample No.

Lab Number : 06174803

: WC0922274

Contact/Location: MICHAEL LAWSON - BUCGRA Page 2 of 2