

WEAR ABNORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id **CR6619 - OUTER** Component **Front Left Final Drive** Fluid **GEAR OIL ISO 220 (--- GAL)**

RECOMMENDATION

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

Bearing and/or bushing wear is indicated.

CONTAMINATION

There is no indication of any contamination in the oil.

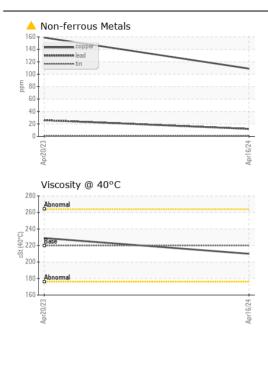
FLUID CONDITION

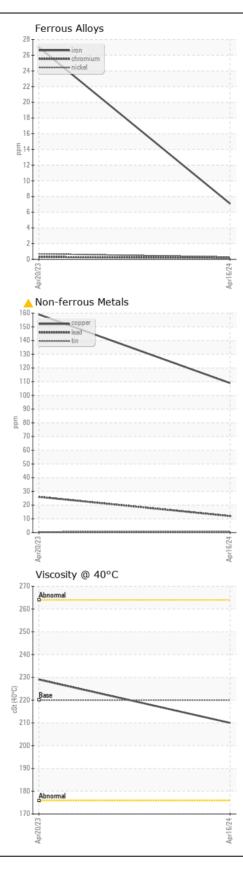
The condition of the oil is acceptable for the time in service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0922962	WC0784913	
Sample Date		Client Info		16 Apr 2024	20 Apr 2023	
Machine Age	hrs	Client Info		7221	6570	
Oil Age	hrs	Client Info		1000	922	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		Not Changd	Changed	
Sample Status				ABNORMAL	ABNORMAL	
Iron			. 500	7	07	
Chromium	ppm	ASTM D5185m ASTM D5185m	>500 >10	-	27 <1	
Nickel	ppm			<1		
	ppm	ASTM D5185m	>10	<1	<1	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	. 05	0	0	
Aluminum	ppm	ASTM D5185m	>25	2	<1	
Lead	ppm	ASTM D5185m	>25	▲ 12	▲ 26	
Copper	ppm	ASTM D5185m	>50	▲ 109	▲ 159	
Tin	ppm	ASTM D5185m	>10	<1	<1	
Vanadium	ppm	ASTM D5185m	NONE	0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	A HEAVY	
Silicon	ppm	ASTM D5185m	>75	3	4	
Silicon Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>75 >20	3 1	4 2	
				-		
Potassium		ASTM D5185m	>20	1	2	
Potassium Water	ppm	ASTM D5185m WC Method	>20 >0.2	1 NEG	2 NEG	
Potassium Water Silt	ppm scalar	ASTM D5185m WC Method *Visual	>20 >0.2 NONE	1 NEG NONE	2 NEG NONE	
Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185m WC Method *Visual *Visual	>20 >0.2 NONE NONE	1 NEG NONE NONE	2 NEG NONE NONE	
Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE	1 NEG NONE NONE NONE	2 NEG NONE NONE	
Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE NORML	1 NEG NONE NONE NONE NORML	2 NEG NONE NONE NONE NORML	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NORML	1 NEG NONE NONE NORML NORML NEG	2 NEG NONE NONE NORML NORML NEG	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2	1 NEG NONE NONE NORML NORML NEG	2 NEG NONE NONE NORML NORML NEG	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	 >20 >0.2 NONE NORME NORML >0.2 50 	1 NEG NONE NONE NORML NORML NEG 0 0	2 NEG NONE NONE NORML NORML NEG <1 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	 >20 >0.2 NONE NONE NORML NORML >0.2 50 15 	1 NEG NONE NONE NORML NORML NEG 0 0	2 NEG NONE NONE NORML NORML NEG <1 0 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.2 NONE NORME NORML >0.2 50 	1 NEG NONE NONE NORML NORML NEG 0 0 0 2	2 NEG NONE NONE NORML NORML NEG <1 0 0 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.2 NONE NORME NORML >0.2 50 15 15 	1 NEG NONE NONE NORML NORML NEG 0 0 0 2 1 <1	2 NEG NONE NONE NORML NORML NEG <1 0 0 0 2	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.2 NONE NONE NORML >0.2 50 15 50 50 	1 NEG NONE NONE NORML NORML NEG 0 0 0 2 1 <1 <1	2 NEG NONE NONE NORML NORML NEG <1 0 0 0 0 <1 (1 <1	
Potassium 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	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.2 NONE NONE NORML NORML >0.2 50 15 50 50 50 	1 NEG NONE NONE NORML NORML NEG 0 0 0 2 1 <1 <1 <1 2	2 NEG NONE NONE NORML NORML NEG <1 0 0 0 <1 <1 2	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.2 NONE NONE NORML >0.2 50 15 15 50 50 50 50 50 350 	1 NEG NONE NONE NORML NORML NEG 0 0 0 2 1 <1 <1 <1 2 301	2 NEG NONE NONE NORML NORML NEG <1 0 0 0 <1 <1 <1 2 378	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.2 NONE NONE NORML >0.2 50 15 15 50 50 50 350 100 	1 NEG NONE NONE NORML NORML NEG 0 0 0 (1 (1 (1 2 301 121	2 NEG NONE NONE NORML NORML NEG <1 0 0 0 (1 (1 2 (1 2 378 276	
Potassium 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 ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.2 NONE NONE NORML >0.2 50 15 15 50 50 50 50 50 350 	1 NEG NONE NONE NORML NORML NEG 0 0 0 2 1 <1 <1 <1 2 301	2 NEG NONE NONE NORML NORML NEG <1 0 0 0 <1 <1 <1 2 378	

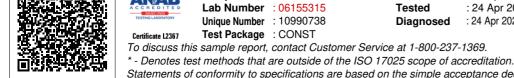
Contact/Location: MICHAEL LAWSON - BUCGRA





Tested

BUCKNER HEAVY LIFT : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received 4732 NC 54 EAST : 19 Apr 2024 : 24 Apr 2024 GRAHAM, NC Diagnosed : 24 Apr 2024 - Sean Felton US 27253-9215 Contact: MICHAEL LAWSON michaell@bucknercompanies.com T: (336)376-8888 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (336)376-4090



Laboratory

Sample No.

: WC0922962

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