

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

Machine Id CR1229 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 a high amount of visible silt present in the sample.

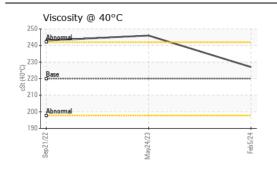
FLUID CONDITION

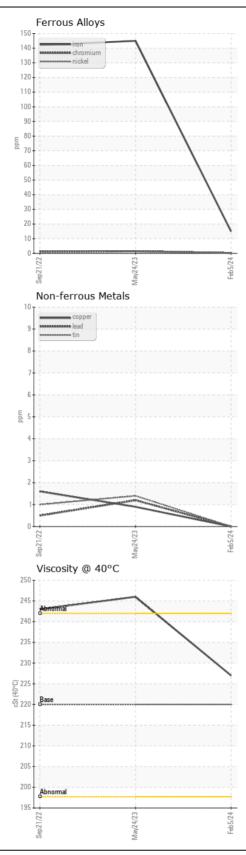
The condition of the oil is acceptable for the time in service.

_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0873225	WC0809280	WC0720519
Sample Date		Client Info		05 Feb 2024	24 May 2023	21 Sep 2022
Machine Age	hrs	Client Info		3049	2563	2432
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
Iron		ASTM D5185m	>200	15	145	142
Chromium	ppm	ASTM D5185m	>200	15 <1	2	142
Nickel	ppm				2	
Titanium	ppm	ASTM D5185m ASTM D5185m	>10	0	0	<1 0
Silver	ppm	ASTM D5185m		0	0 <1	0
Aluminum	ppm	ASTM D5185m	>25	0	0	<1
Lead	ppm	ASTM D5185m	>25 >50	0	1	<1
Copper	ppm	ASTM D5185m	>200	0	<1	2
Tin	ppm	ASTM D5185m	>10	0	1	1
Vanadium	ppm	ASTM D5185m	>10	0	<1	0
White Metal	ppm scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
i ellow ivietai	Scalai	visuai	NONL	NONL	NONL	NONL
Silicon	ppm	ASTM D5185m	>50	0	11	10
Silicon Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>50 >20	0 0	11 4	10 3
				-		
Potassium		ASTM D5185m	>20	0	4	3
Potassium Water	ppm	ASTM D5185m WC Method	>20 >0.2	0 NEG	4 NEG	3 NEG
Potassium Water Silt	ppm scalar	ASTM D5185m WC Method *Visual	>20 >0.2 NONE	0 NEG A HEAVY	4 NEG NONE	3 NEG NONE
Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185m WC Method *Visual *Visual	>20 >0.2 NONE NONE	0 NEG A HEAVY NONE	4 NEG NONE NONE	3 NEG NONE MODER
Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE	0 NEG HEAVY NONE NONE	4 NEG NONE NONE NONE	3 NEG NONE MODER 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	0 NEG HEAVY NONE NONE NORML	4 NEG NONE NONE NONE NORML	3 NEG NONE MODER NONE NORML
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NORML NORML	0 NEG HEAVY NONE NONE NORML NORML NEG	4 NEG NONE NONE NORML NORML NEG	3 NEG NONE MODER NONE NORML NORML NEG
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2	0 NEG HEAVY NONE NORML NORML NEG 0	4 NEG NONE NONE NORML NORML NEG 2	3 NEG NONE MODER 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 ASTM D5185m	>20 >0.2 NONE NONE NORML >0.2	0 NEG HEAVY NONE NORML NORML NEG 0 0	4 NEG NONE NONE NORML NORML NEG 2 <1	3 NEG NONE NORE NORML NORML NEG 1 7
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	0 NEG HEAVY NONE NORML NORML NEG 0 0 2	4 NEG NONE NONE NORML NORML NEG 2 <1 13	3 NEG NONE MODER NORML NORML NEG 1 7 10
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar 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 NONE NORML >0.2	0 NEG NONE NONE NORML NORML NEG 0 0 2 0	4 NEG NONE NONE NORML NEG 2 <1 13 <1	3 NEG NONE MODER NORML NORML NEG 1 7 10 < 1
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm scalar scalar scalar scalar scalar scalar 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 NORML NORML >0.2 50 15 15	0 NEG NONE NONE NORML NORML NEG 0 0 2 0 2	4 NEG NONE NONE NORML NORML NEG 2 <1 13 <1 3	3 NEG NONE NONE NORML NORML NEG 1 7 10 2
Potassium 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 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 15	0 NEG NONE NONE NORML NORML NEG 0 0 2 0 2 0 2 0	4 NEG NONE NONE NORML NORML NEG 2 <1 13 <1 3 2	3 NEG NONE NONE NORML NORML NEG 1 7 10 < 1 2 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 ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2 50 15 15 50 50	0 NEG NONE NONE NORML NORML NEG 0 2 0 2 0 2 0 2 0 0 2	4 NEG NONE NONE NORML NORML NEG 2 <1 13 <1 3 <2 9	3 NEG NONE NONE NORML NORML NEG 1 7 10 (10 (2 1 1 2 1 1 1 1 6
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar 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	>20 >0.2 NONE NONE NORML NORML >0.2 50 15 15	0 NEG NONE NONE NORML NORML NEG 0 2 0 2 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0	4 NEG NONE NONE NORML NORML NEG 2 <1 13 <1 3 2	3 NEG NONE NONE NORML NORML NEG 1 7 10 < 1 2 1 1
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Malybdenum 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	0 NEG NONE NONE NORML NORML NEG 0 2 0 2 0 2 0 2 0 0 2 0 0 2 3 0 0 2 3 9	4 NEG NONE NONE NORML NORML NEG 2 <1 13 <1 3 <1 3 2 9 10 0	3 NEG NONE NONE NORML NORML NEG 1 10 <1 2 1 10 <1 2 1 16 35 14
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	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 50 350	0 NEG NONE NONE NORML NORML NEG 0 2 0 2 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0	4 NEG NONE NONE NORML NORML NEG 2 <1 13 <1 3 <1 3 2 9 10	3 NEG NONE NONE NORML NORML NEG 1 7 10 2 1 1 2 1 1 1 6 35

Contact/Location: MICHAEL LAWSON - BUCGRA





: WearCheck USA - 501 Madison Ave., Cary, NC 27513 **BUCKNER HEAVY LIFT** Laboratory Sample No. : WC0873225 Received :08 Feb 2024 4732 NC 54 EAST Lab Number : 06083982 Tested : 09 Feb 2024 GRAHAM, NC : 11 Feb 2024 - Don Baldridge Unique Number : 10871427 Diagnosed US 27253-9215 Test Package : CONST Contact: MICHAEL LAWSON To discuss this sample report, contact Customer Service at 1-800-237-1369. michaell@bucknercompanies.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (336)376-8888 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (336)376-4090

Certificate L2367

Contact/Location: MICHAEL LAWSON - BUCGRA

Page 2 of 2