

Machine Id LIEBHERR CR6611 - OUTER Component Rear Right Final Drive

GEAR OIL ISO 220 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

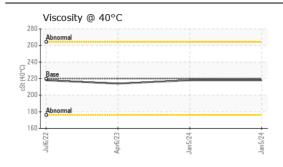
FLUID CONDITION

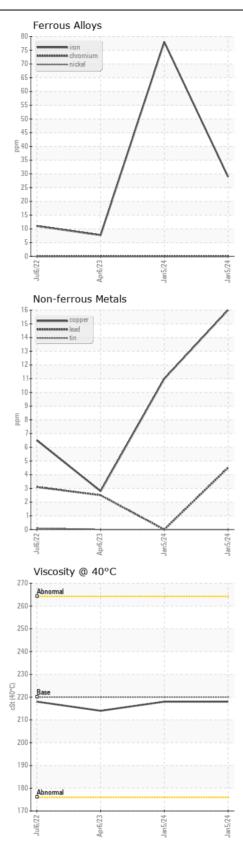
The condition of the oil is acceptable for the time in service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0867460	WC0873277	WC0746698
Sample Date		Client Info		05 Jan 2024	05 Jan 2024	06 Apr 2023
Machine Age	hrs	Client Info		13889	13884	13215
Oil Age	hrs	Client Info		0	0	754
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
Iron	nom	ASTM D5185m	>500	78	29	8
Chromium	ppm ppm	ASTM D5185m	>10	0	0	0
Nickel		ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m	>10	0	0	0
Silver	ppm ppm	ASTM D5185m		0	0	0
Aluminum		ASTM D5185m	>25	3	2	0
Lead	ppm	ASTM D5185m	>25	0	4	2
Copper	ppm ppm	ASTM D5185m	>20	11	16	3
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m	210	0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	▲ HEAVY
	·····		HOLLE		·····	
Silicon	ppm	ASTM D5185m	>75	7	4	4
Potassium	ppm	ASTM D5185m	>20	2	1	1
· otdoordini	ppm	ASTIVI DJ TOJITI		_	1	
Water	ppm	WC Method	>0.2	NEG	NEG	NEG
	scalar			NEG NONE	-	NEG NONE
Water		WC Method	>0.2		NEG	
Water Silt	scalar	WC Method *Visual	>0.2 NONE	NONE	NEG MODER	NONE
Water Silt Debris	scalar scalar	WC Method *Visual *Visual	>0.2 NONE NONE	NONE	NEG MODER NONE	NONE
Water Silt Debris Sand/Dirt	scalar scalar scalar	WC Method *Visual *Visual *Visual	>0.2 NONE NONE NONE	NONE NONE NONE	NEG MODER NONE NONE	NONE NONE NONE
Water Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual	>0.2 NONE NONE NONE NORML	NONE NONE NORE	NEG MODER NONE NONE	NONE NONE NORML
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual *Visual	>0.2 NONE NONE NORML NORML	NONE NONE NORML NORML	NEG MODER NONE NONE NORML	NONE NONE NORML NORML
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar scalar ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>0.2 NONE NONE NORML NORML >0.2	NONE NONE NORML NORML NEG 0	NEG MODER NONE NORML NORML NEG 0	NONE NONE NORML NORML NEG 0
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar scalar ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>0.2 NONE NONE NORML NORML >0.2	NONE NONE NORML NORML NEG 0 6	NEG MODER NONE NORML NORML NEG	NONE NONE NORML NORML NEG
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar scalar ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>0.2 NONE NONE NORML NORML >0.2	NONE NONE NORML NORML NEG 0	NEG MODER NONE NORML NORML NEG 0 6	NONE NONE NORML NORML NEG 0 3
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar scalar ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	 >0.2 NONE NONE NORML >0.2 50 15 	NONE NONE NORML NORML NEG 0 6 0	NEG MODER NONE NORML NORML NEG 0 6 0	NONE NONE NORML NORML NEG 0 3 0
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar scalar scalar ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	 >0.2 NONE NONE NORML >0.2 50 15 	NONE NONE NORML NORML NEG 0 6 0 0	NEG MODER NONE NORML NORML NEG 0 6 0 6 0 0	NONE NONE NORML NORML NEG 0 3 0 0 0
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.2 NONE NONE NORML >0.2 50 15 15	NONE NONE NORML NORML NEG 0 6 0 0 0	NEG MODER NONE NORML NORML NEG 0 6 0 6 0 2 1	NONE NONE NORML NORML NEG 0 3 0 0 0 0 0
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >0.2 NONE NORME NORML >0.2 50 15 50 	NONE NONE NORML NORML NEG 0 6 0 0 0 0 0 1	NEG MODER NONE NORML NORML NEG 0 6 0 6 0 0 2 1 <1	NONE NONE NORML NORML NEG 0 3 0 0 0 0 0 0 0 0 0
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >0.2 NONE NONE NORML >0.2 50 15 50 50 50 50 	NONE NONE NORML NORML NEG 0 6 0 6 0 0 0 0 1 1 19	NEG MODER NONE NORML NORML NEG 0 6 0 6 0 0 4 1 2 1 5	NONE NONE NORML NORML NORML NORML 0 3 0 0 3 0 0 1
Water 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 ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >0.2 NONE NONE NORML >0.2 50 15 15 50 50 350 	NONE NONE NORML NORML NEG 0 6 0 0 0 0 1 1 19 424	NEG MODER NONE NORML NORML NEG 0 6 0 6 0 427	NONE NONE NORML NORML NEG 0 3 0 0 0 0 0 0 0 1 1 1 381
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >0.2 NONE NONE NORML NORML >0.2 50 15 15 50 50 350 100 	NONE NONE NORML NORML NEG 0 6 0 0 0 0 1 1 19 424 0	NEG MODER NONE NORML NORML NEG 0 6 0 2 1 <1 5 427 4	NONE NONE NORML NORML NEG 0 3 0 0 0 0 0 0 0 1 1 1 381 7

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 6M 106:2012) F: (336)376-4090



 Certificate 12367
 Test Package
 : CONST
 Construction

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

 * - 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)

: WC0867460

: 06057514

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Diagnostician : Wes Davis

: 10 Jan 2024

: 11 Jan 2024

Recieved

Diagnosed

Report Id: BUCGRA [WUSCAR] 06057514 (Generated: 01/11/2024 14:41:40) Rev: 1

Laboratory Sample No.

Lab Number

Unique Number : 10823463

Contact/Location: MICHAEL LAWSON - BUCGRA

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