WEAR CONTAMINATION FLUID CONDITION

SEVERE NORMAL NORMAL

Machine Id

LIEBHERR CR6611 - OUTER

Component

Rear Left Final Drive							
GEAR OIL ISO 220 (GAL)							
RECOMMENDATION	 + .			11 2/41		 Line i — a	
Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Test	UOM	Method	Limit/Abn	Current WC0867461	History1	History2 WC0687187
	Sample Number		Client Info			WC0746695	
	Sample Date	lawa	Client Info		05 Jan 2024	06 Apr 2023	06 Jul 2022
	Machine Age	hrs	Client Info		13889	13215	12454
	Oil Age	hrs	Client Info		0	754	404
	Filter Age	hrs	Client Info		0	Observation of	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				SEVERE	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>500	32	28	17
High concentration of visible metal present. Bearing and/or bushing wear is indicated.	Chromium	ppm	ASTM D5185m	>10	0	<1	0
	Nickel	ppm	ASTM D5185m	>10	0	1	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m	>25	2	2	<1
	Lead	ppm	ASTM D5185m	>25	<u> </u>	<1	<1
	Copper	ppm	ASTM D5185m	>50	457	3	1
	Tin	ppm	ASTM D5185m	>10	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
	Yellow Metal	scalar	*Visual	NONE	HEAVY	MODER	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	4	6	15
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		1	3	0
	Water	pp	WC Method	>0.2	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	MODER	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Codium	nnm	ACTM DE10Em				
	Sodium Boron	ppm	ASTM D5185m ASTM D5185m	50	0 12	1	<1
The oil is no longer serviceable as a result of the abnormal and/or severe wear.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m	10	<1	1	<1
	Magnesium	ppm	ASTM D5185m	50	<1	1	0
	Calcium	ppm	ASTM D5185m		4	7	3
	Phosphorus	ppm	ASTM D5185m		331	441	437
	Zinc	ppm	ASTM D5185m		369	3	<1
		PP'''	. 10 1111 20 100111	100	555	Ŭ	7.1

Sulfur

Visc @ 40°C

5371

220

ASTM D5185m 12500

ASTM D445 220

ppm

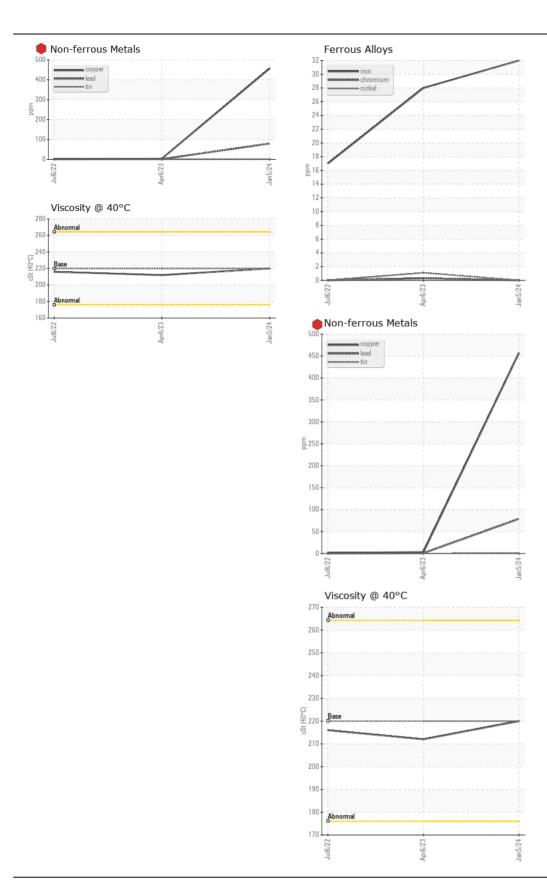
cSt

972

216

5837

212







Laboratory Sample No. Lab Number

: WC0867461 : 06057517 Unique Number : 10823466 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 10 Jan 2024 : 12 Jan 2024 Diagnosed Diagnostician : Sean Felton

GRAHAM, NC US 27253-9215 Contact: MICHAEL LAWSON michaell@bucknercompanies.com

BUCKNER HEAVY LIFT

4732 NC 54 EAST

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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)