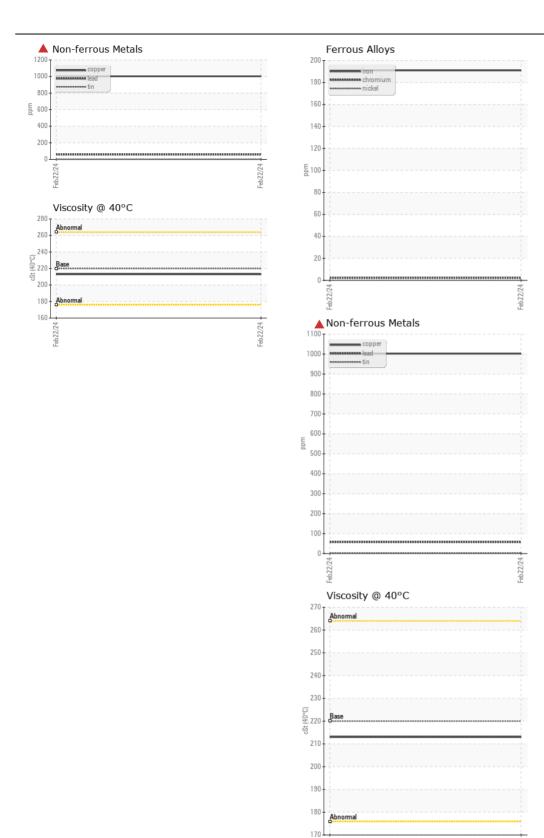
WEAR CONTAMINATION FLUID CONDITION

SEVERE NORMAL NORMAL

LIEBHERR LR1600 CR-6607 - OUTER (S/N 074580)

Component Front Right Final Drive

GEAR OIL ISO 220 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil 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.	Sample Number		Client Info		WC0823567		
	Sample Date		Client Info		22 Feb 2024		
	Machine Age	hrs	Client Info		15138		
	Oil Age	hrs	Client Info		1397		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				SEVERE		
WEAR	Iron	ppm	ASTM D5185m	>500	191		
Bearing and/or bushing wear is indicated.	Chromium	ppm	ASTM D5185m	>10	2		
	Nickel	ppm	ASTM D5185m	>10	2		
	Titanium	ppm	ASTM D5185m		1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>25	7		
	Lead	ppm	ASTM D5185m	>25	<u> </u>		
	Copper	ppm	ASTM D5185m	>50	1002		
	Tin	ppm	ASTM D5185m	>10	1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	MODER		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	41		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3		
	Water		WC Method	>0.2	NEG		
	Silt	scalar	*Visual	NONE	MODER		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
The oil is no longer serviceable as a result of the abnormal and/or severe wear.	Boron	ppm	ASTM D5185m	50	20		
	Barium	ppm	ASTM D5185m	15	2		
	Molybdenum	ppm	ASTM D5185m	15	1		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		1		
	Calcium	ppm	ASTM D5185m		12		
	Phosphorus	ppm	ASTM D5185m		420		
	Zinc	ppm	ASTM D5185m		632		
	Sulfur	ppm	ASTM D5185m		7846		
	Visc @ 40°C	cSt	ASTM D445	220	213		







Certificate L2367

Laboratory Sample No.

Lab Number : 06103886 Unique Number : 10902116 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0823567 Received : 28 Feb 2024 **Tested** : 29 Feb 2024 Diagnosed

: 01 Mar 2024 - Don Baldridge

BUCKNER HEAVY LIFT 4732 NC 54 EAST GRAHAM, NC US 27253-9215

Contact: MICHAEL LAWSON michaell@bucknercompanies.com

T: (336)376-8888 F: (336)376-4090

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)