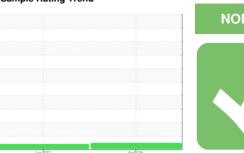


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 

Machine Id

# LIEBHERR 1300 CR-3317 (S/N 138-408)

Component 2 Winch

GEAR OIL ISO 220 (--- GAL)

$\overline{}$	1 4	$\sim$	TIP.	$\overline{}$	$\overline{}$	10
	ΙА	GI	M		5	15
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#### Recommendation

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

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

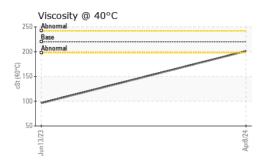
#### **Fluid Condition**

The condition of the oil is acceptable for the time in

			Jun2023	Apr2024		
			GUILUES	Αμιεύετ		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0922185	WC0810560	
Sample Date		Client Info		08 Apr 2024	13 Jun 2023	
Machine Age	hrs	Client Info		10234	9021	
Oil Age	hrs	Client Info		1213	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ATTENTION	
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	9	27	
Chromium	ppm		>10	0	<1	
Nickel	ppm	ASTM D5185m	>10	0	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>5	0	<1	
Lead	ppm	ASTM D5185m	>15	0	0	
Copper	ppm	ASTM D5185m		0	<1	
Tin	ppm	ASTM D5185m	700	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
	РР					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	6	172	
Barium	ppm	ASTM D5185m	15	0	2	
Molybdenum	ppm	ASTM D5185m	15	0	2	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m	50	0	12	
Calcium	ppm	ASTM D5185m	50	7	89	
Phosphorus	ppm	ASTM D5185m	350	545	1410	
Zinc	ppm	ASTM D5185m	100	8	61	
Sulfur	ppm	ASTM D5185m	12500	9884	23946	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	2	
Sodium	ppm	ASTM D5185m		0	0	
Potassium	ppm	ASTM D5185m	>20	0	2	
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	

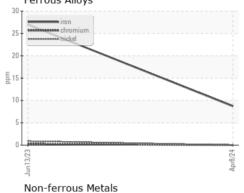


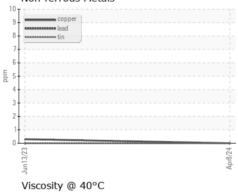
# **OIL ANALYSIS REPORT**

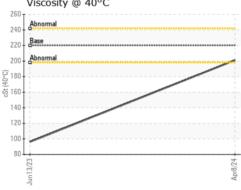




## Ferrous Alloys









Certificate 12367

Laboratory

**Sample No.** : WC0922185 Lab Number : 06146799 Unique Number : 10976877 Test Package : CONST

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

Received : 11 Apr 2024 Tested Diagnosed

: 12 Apr 2024 : 12 Apr 2024 - Wes Davis

**BUCKNER - WILLIS** 18123 HWY 75 NORTH WILLIS, TX

US 77378 Contact: JOHN HAWKINS johnh@bucknercompanies.com

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)

Report Id: BUCWILTX [WUSCAR] 06146799 (Generated: 04/12/2024 16:51:08) Rev: 1

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