

OIL ANALYSIS REPORT



LIEBHERR LR-1400 CR-4404 - 4.1

Component

Winch

GEAR OIL ISO 220 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Wear

Gear wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

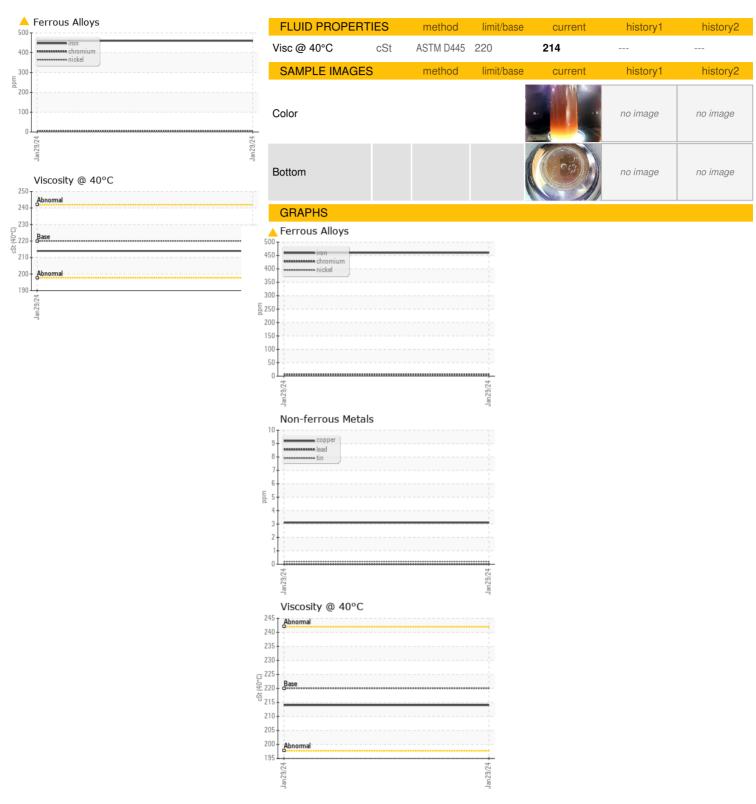
The condition of the oil is acceptable for the time in

Sample Rating Trend	WEAR
Jan 2024	

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0893058		
Sample Date		Client Info		29 Jan 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATION	J	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	460		
Chromium	ppm	ASTM D5185m	>10	5		
Nickel	ppm	ASTM D5185m	>10	2		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>5	5		
Lead	ppm	ASTM D5185m	>15	0		
Copper	ppm	ASTM D5185m	>80	3		
Tin	ppm	ASTM D5185m		<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	18		
Barium	ppm	ASTM D5185m	15	0		
Molybdenum	ppm	ASTM D5185m	15	<1		
Manganese	ppm	ASTM D5185m		4		
Magnesium	ppm	ASTM D5185m	50	1		
Calcium	ppm	ASTM D5185m	50	4		
Phosphorus	ppm	ASTM D5185m	350	1515		
Zinc	ppm	ASTM D5185m	100	7		
Sulfur	ppm	ASTM D5185m	12500	2389		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10		
Sodium	ppm	ASTM D5185m		10		
Potassium	ppm	ASTM D5185m	>20	2		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
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		
Free Water	scalar	*Visual		NEG		
4:22:55) Rov: 1			C	ontact/Location	IOHNI HAWKIN	IS - BLICWILTY



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Laboratory Sample No.

Lab Number Unique Number : 10857253

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0893058 : 06075162

Test Package : CONST

Recieved Diagnosed Diagnostician : Don Baldridge

: 30 Jan 2024 : 01 Feb 2024

BUCKNER - WILLIS 18123 HWY 75 NORTH WILLIS, TX US 77378

Contact: JOHN HAWKINS johnh@bucknercompanies.com T:

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)

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