WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL NORMAL

Machine Id

## **LIEBHERR 31250**

Component
Splitter Box

RECOMMENDATION  The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0924389	WC0846324	WC0529498
	Sample Date		Client Info		17 May 2024	16 Nov 2023	31 Dec 202
	Machine Age	hrs	Client Info		4738	4230	1056
	Oil Age	hrs	Client Info		2000	500	500
	Filter Age	hrs	Client Info		2000	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	N/A	N/A
	Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR	Iron	ppm	ASTM D5185m	>325	<b>▲</b> 458	<u></u> 516	<u></u> 500
Gear wear is indicated.	Chromium	ppm	ASTM D5185m		4	<u> 5</u> 5	4
	Nickel	ppm	ASTM D5185m		2	6	2
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m	>5	<b>△</b> 36	<u> </u>	<b>\( \)</b> 35
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m	>30	4	3	2
	Tin	ppm	ASTM D5185m		0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	18	<u> </u>	8
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	27	37	9
	Water		WC Method	>0.2	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	MILKY
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	▲ 0.2%
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>170	2	0	0
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	400	9	11	5
	Barium	ppm	ASTM D5185m	200	0	0	<1
	Molybdenum	ppm	ASTM D5185m	12	0	<1	0
	Manganese	ppm	ASTM D5185m		3	4	5
	Magnesium	ppm	ASTM D5185m	12	3	4	<1
		ppm	ASTM D5185m	150	56	24	7
	Calcium	ppiii					
	Calcium Phosphorus	ppm	ASTM D5185m		2244	2516	1727
				1650	2244 100		1727 143
	Phosphorus	ppm	ASTM D5185m	1650 125		2516	

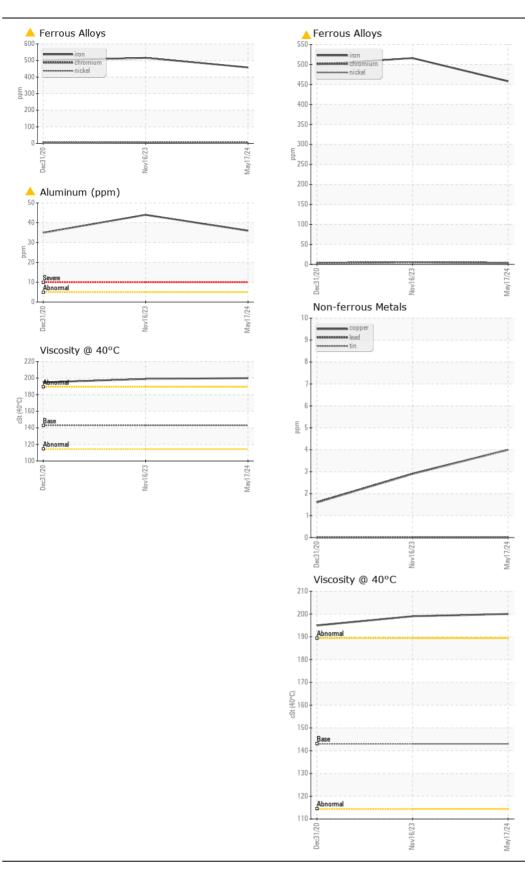
Visc @ 40°C

199

200

ASTM D445 143

195







Certificate L2367

Laboratory Sample No.

Lab Number : 06186581 Unique Number : 11043333

: WC0924389 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 May 2024 **Tested** : 22 May 2024 Diagnosed

: 23 May 2024 - Sean Felton

**SULLIVAN EASTERN INC-LIEBHERR** 

2860 C SLATER RD MORRISVILLE, NC US 27560

Contact: CHRIS CALTON

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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