

WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL ABNORMAL NORMAL



## LIEBHERR R944CHDSL 31224 (S/N 025783-791)

Fluid	Final Drive AR OIL LS 80W90 (1 QTS)			,				
RECOMMENDATION		Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all a	Sample Number		Client Info		WC0950515	WC0905398	WC0733323	
The oil change at the time of sa	Sample Date		Client Info		08 Jul 2024	08 Feb 2024	20 Dec 2023	
recommend an early resample to monitor this condition.		Machine Age	hrs	Client Info		12892	12663	12505
		Oil Age	hrs	Client Info		500	250	1250
		Filter Age	hrs	Client Info		500	0	1250
		Oil Changed		Client Info		Changed	Changed	Changed
		Filter Changed		Client Info		Changed	N/A	Changed
		Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR	Iron	ppm	ASTM D5185m	>500	<u> 747</u>	<u></u> 575	<b>1</b> 699	
		Chromium	ppm	ASTM D5185m		7	4	▲ 19
Gear wear is indicated.	Nickel	ppm	ASTM D5185m		2	<1	5	
		Titanium	ppm	ASTM D5185m	710	2	1	8
		Silver	ppm	ASTM D5185m		0	0	0
		Aluminum	ppm	ASTM D5185m	>25	_ 29	<b>2</b> 1	<b>127</b>
		Lead	ppm	ASTM D5185m	>25	0	0	0
	Copper	ppm	ASTM D5185m	>50	22	13	45	
		Tin	ppm	ASTM D5185m	>10	0	<1	0
		Vanadium	ppm	ASTM D5185m		0	0	0
		White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
CONTABAINIATION							4 4=0	
CONTAMINATION		Silicon	ppm	ASTM D5185m		<u> </u>	<b>△</b> 69	472
Elemental levels of silicon (Si) and silicate (coarse dirt) ingress.	and aluminum (Al) indicate alumina-	Potassium	ppm	ASTM D5185m WC Method		7	3 NEG	31 NEG
		Water	cooler	*Visual	NONE	NEG NONE	LIGHT	NONE
		Debris	scalar	*Visual	NONE	NONE	NONE	NONE
		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
		Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
		Odor		*Visual	NORML	NORML	NORML	NORML
		Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	0.2%
FLUID CONDITION		Sodium	ppm	ASTM D5185m		9	4	20
The condition of the oil is acceptable	otable for the time in service.	Boron	ppm	ASTM D5185m	150	55	91	54
		Barium	ppm	ASTM D5185m		0	0	0
		Molybdenum	ppm	ASTM D5185m		5	8	2
		Manganese	ppm	ASTM D5185m	10	6	4	14
		Magnesium	ppm	ASTM D5185m		13	28	21
		Calcium	ppm	ASTM D5185m		65	82	52
		Phosphorus	ppm	ASTM D5185m		2703	3350	1966
		Zinc	ppm	ASTM D5185m	<b>DC</b>	58	72	15

Sulfur

Visc @ 40°C

17850

120

24318

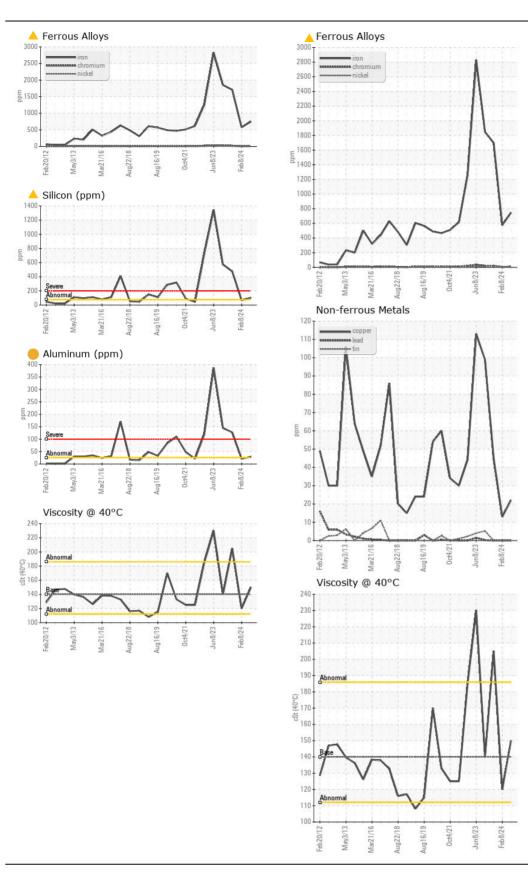
150

ASTM D5185m 20000

ASTM D445 140

ppm

28921







Certificate L2367

Laboratory Sample No. Lab Number

: WC0950515 : 06233617 Unique Number : 11117110

Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Jul 2024 **Tested** 

: 12 Jul 2024 : 13 Jul 2024 - Don Baldridge Diagnosed

2860 C SLATER RD MORRISVILLE, NC US 27560

Contact: CHRIS CALTON

**SULLIVAN EASTERN INC-LIEBHERR** 

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)

F: (919)484-2136

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