



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area  
**RMR-Newport**  
Machine Id  
**024533-791 LIEBHERR R944C 024533-791**  
Component  
**Front Right Final Drive**  
Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0017798	DJJ0017630	DJJ0016537
Sample Date		Client Info		14 Jun 2024	29 Mar 2023	20 Jul 2022
Machine Age	hrs	Client Info		9864	8896	8262
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		N/A	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>2000	420	▲ 1460	▲ 888
Chromium	ppm	ASTM D5185m	>30	12	▲ 31	▲ 17
Nickel	ppm	ASTM D5185m	>5	3	6	3
Titanium	ppm	ASTM D5185m	>10	1	3	2
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>70	11	● 48	● 33
Lead	ppm	ASTM D5185m	>10	<1	<1	1
Copper	ppm	ASTM D5185m	>100	23	63	49
Tin	ppm	ASTM D5185m	>10	<1	4	3
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

## CONTAMINATION

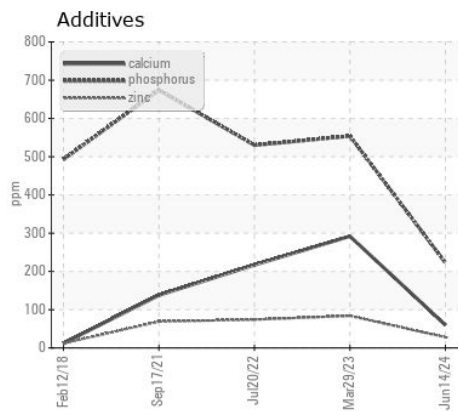
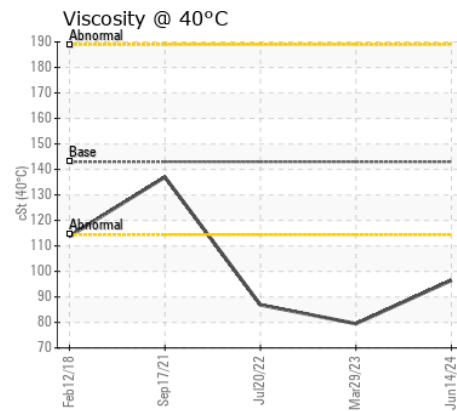
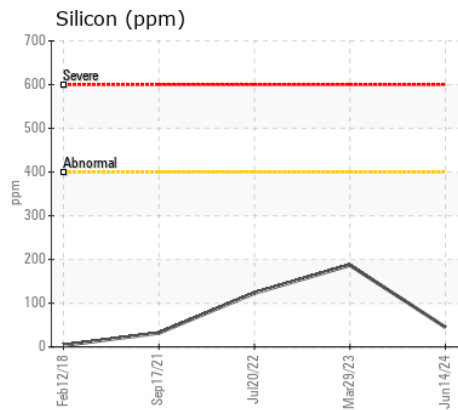
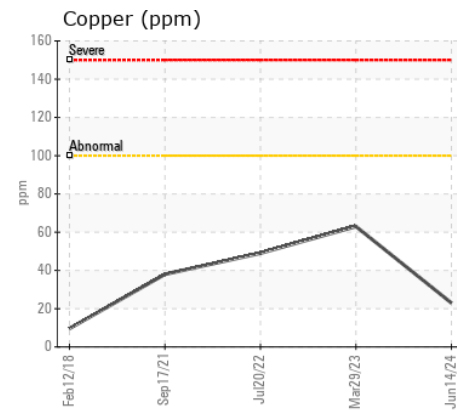
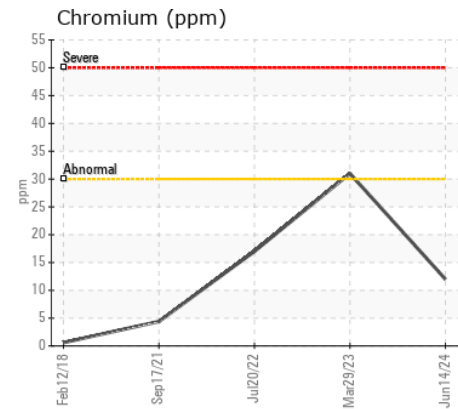
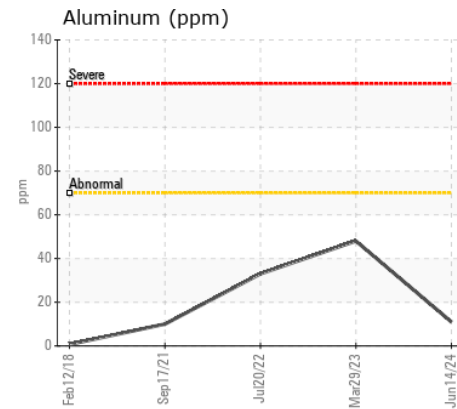
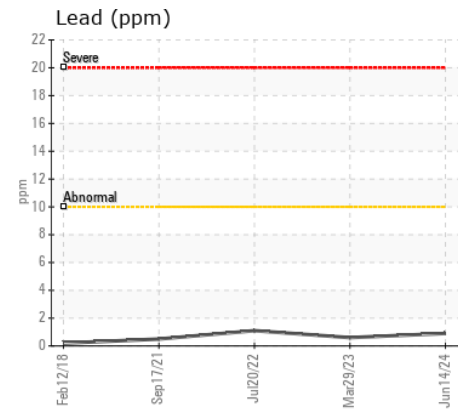
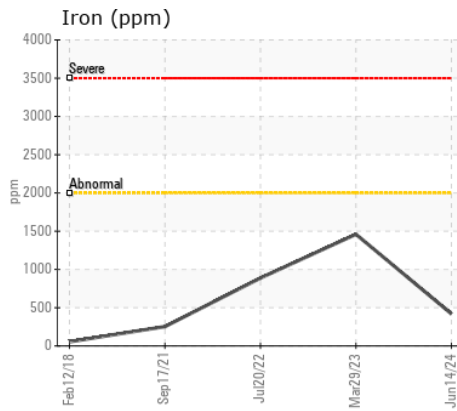
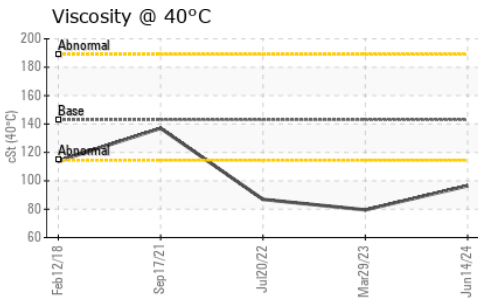
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>400	45	▲ 187	▲ 123
Potassium	ppm	ASTM D5185m	>20	4	8	8
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>170	<1	6	4
Boron	ppm	ASTM D5185m	400	<1	3	4
Barium	ppm	ASTM D5185m	200	<1	0	0
Molybdenum	ppm	ASTM D5185m	12	1	3	2
Manganese	ppm	ASTM D5185m		4	14	9
Magnesium	ppm	ASTM D5185m	12	10	45	32
Calcium	ppm	ASTM D5185m	150	60	292	217
Phosphorus	ppm	ASTM D5185m	1650	223	554	530
Zinc	ppm	ASTM D5185m	125	28	84	74
Sulfur	ppm	ASTM D5185m	22500	14222	20300	19966
Visc @ 40°C	cSt	ASTM D445	143	96.5	79.5	86.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DJJ0017798  
**Lab Number** : 06215170  
**Unique Number** : 11088034  
**Test Package** : MOBCE

**Received** : 19 Jun 2024  
**Tested** : 20 Jun 2024  
**Diagnosed** : 21 Jun 2024 - Sean Felton

**RIVER METALS RECYCLING - NEWPORT**  
 P.O. BOX 72-220  
 NEWPORT, KY  
 US 41072  
 Contact: RYAN BOWDEN

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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