



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
RMR-Newport
Machine Id
1203-88007 LIEBHERR LH50M 1203-88007
Component
Front Left Wheel Hub
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		DJJ0018098	DJJ0016424	DJJ0016417
Sample Date		Client Info		14 Jun 2024	05 Dec 2022	19 Jul 2022
Machine Age	hrs	Client Info		12052	10444	9816
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	Not Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>325	91	51	108
Chromium	ppm	ASTM D5185m	>3	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	<1	<1	1
Titanium	ppm	ASTM D5185m	>4	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>10	2	1	1
Lead	ppm	ASTM D5185m	>3	<1	<1	<1
Copper	ppm	ASTM D5185m	>70	7	3	6
Tin	ppm	ASTM D5185m	>2	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

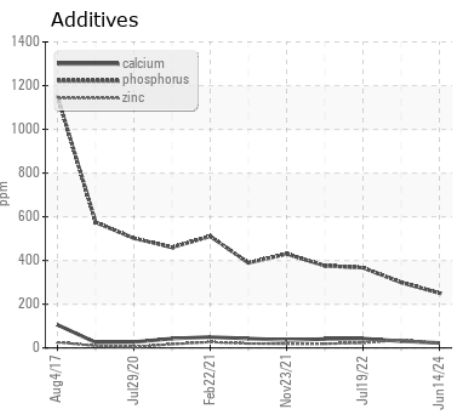
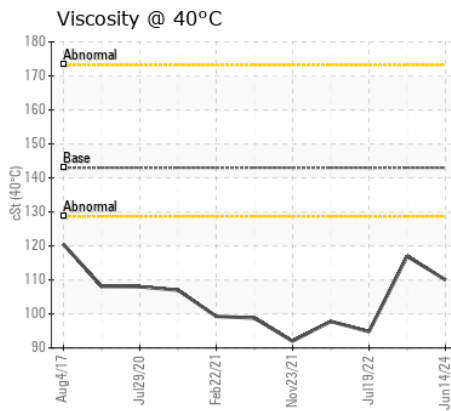
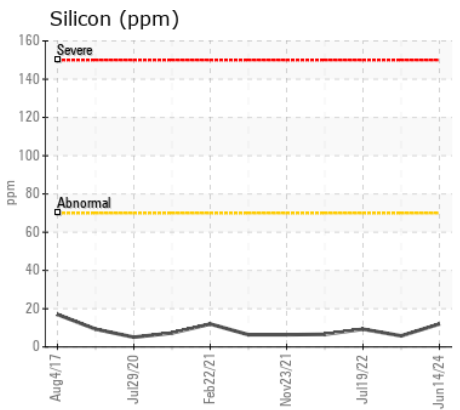
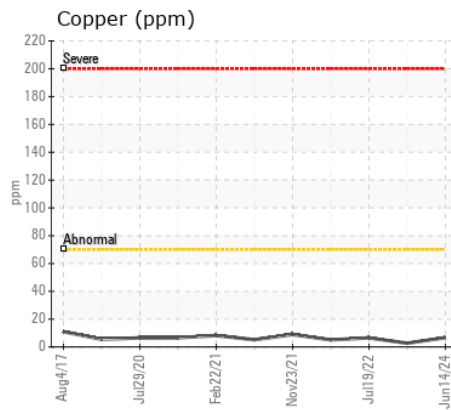
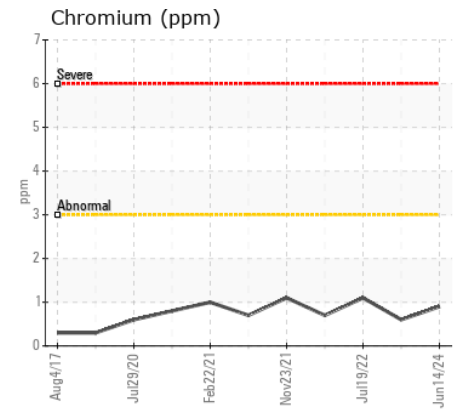
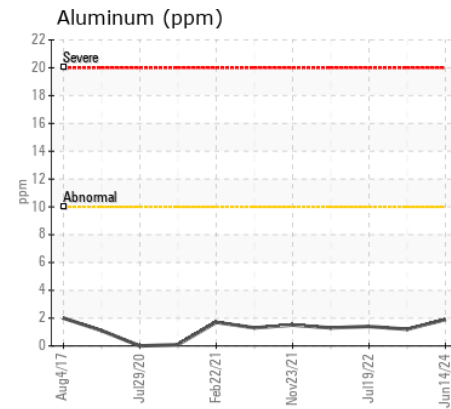
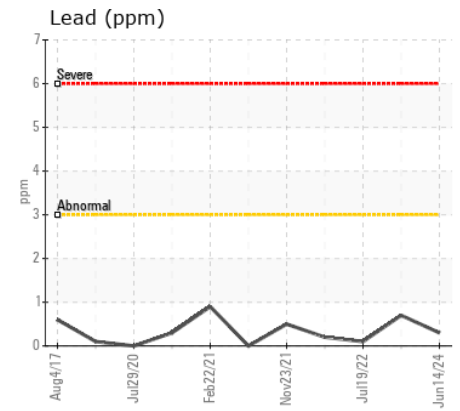
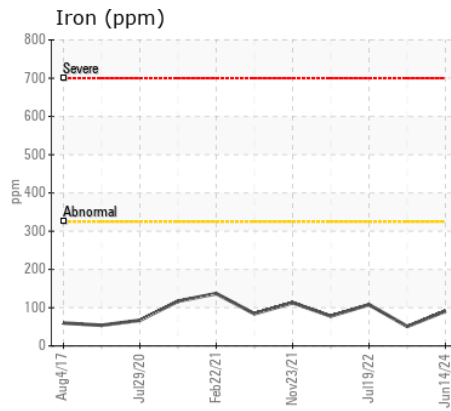
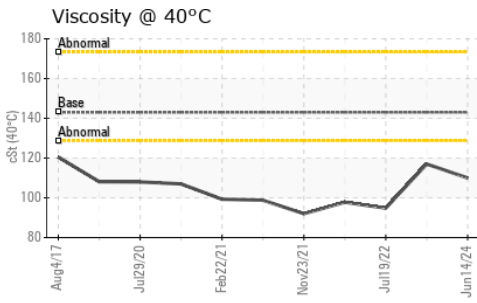
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>70	12	6	9
Potassium	ppm	ASTM D5185m	>20	1	4	2
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	LIGHT	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	3	1	5
Boron	ppm	ASTM D5185m	400	2	1	4
Barium	ppm	ASTM D5185m	200	<1	10	0
Molybdenum	ppm	ASTM D5185m	12	1	<1	2
Manganese	ppm	ASTM D5185m		1	<1	2
Magnesium	ppm	ASTM D5185m	12	4	7	9
Calcium	ppm	ASTM D5185m	150	23	31	43
Phosphorus	ppm	ASTM D5185m	1650	251	300	367
Zinc	ppm	ASTM D5185m	125	20	37	23
Sulfur	ppm	ASTM D5185m	22500	14498	17370	24445
Visc @ 40°C	cSt	ASTM D445	143	110	117	94.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0018098
Lab Number : 06215167
Unique Number : 11088031
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)

T:
F: (859)291-0086