



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
RMR-Trinity
 Machine Id
1216-96585 LIEBHERR LH50M 1216-96585
 Component
Rear Differential
 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		DJJ0022466	DJJ0019891	DJJ0015350
Sample Date		Client Info		12 Apr 2024	20 Jul 2023	21 Oct 2022
Machine Age	hrs	Client Info		11651	10527	9584
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	39	51	46
Chromium	ppm	ASTM D5185m	>2	1	0	0
Nickel	ppm	ASTM D5185m	>2	1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>4	<1	0	2
Aluminum	ppm	ASTM D5185m	>7	2	<1	<1
Lead	ppm	ASTM D5185m	>4	1	0	<1
Copper	ppm	ASTM D5185m	>135	5	9	22
Tin	ppm	ASTM D5185m	>3	1	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

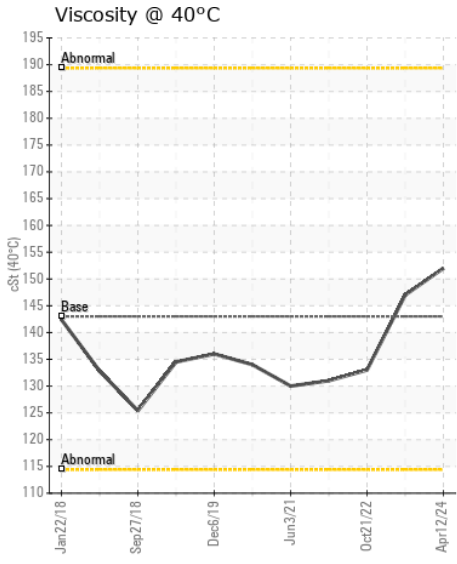
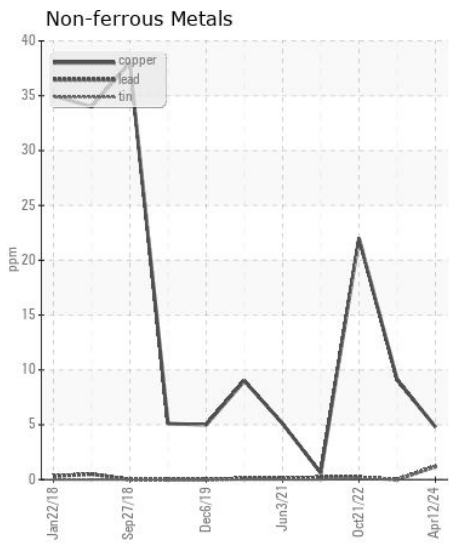
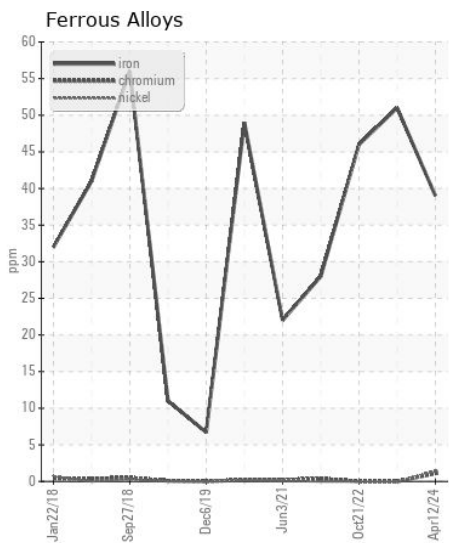
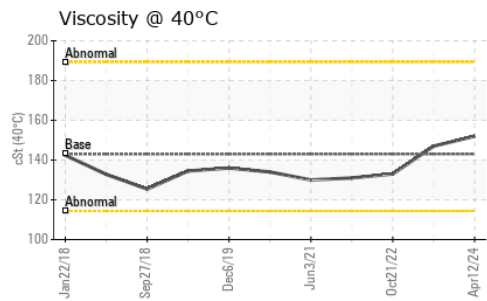
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	4	2	2
Potassium	ppm	ASTM D5185m	>20	2	0	2
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	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	5	4	<1
Boron	ppm	ASTM D5185m	400	102	180	201
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	2	<1	1
Manganese	ppm	ASTM D5185m		2	1	<1
Magnesium	ppm	ASTM D5185m	12	2	2	9
Calcium	ppm	ASTM D5185m	150	38	50	45
Phosphorus	ppm	ASTM D5185m	1650	1706	1617	1351
Zinc	ppm	ASTM D5185m	125	20	29	31
Sulfur	ppm	ASTM D5185m	22500	24432	25056	23184
Visc @ 40°C	cSt	ASTM D445	143	152	147	133



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0022466
Lab Number : 06152374
Unique Number : 10982452
Test Package : CONST
Received : 17 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 22 Apr 2024 - Sean Felton

RIVER METALS RECYCLING - DECATUR FACILITY
 4301 IVERSON BLVD
 TRINITY, AL
 US 35673
 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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