



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL
SEVERE
NORMAL



Area
RMR-Trinity
Machine Id
1216-96585 LIEBHERR LH50M 1216-96585
Component
Swing Drive
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0022468	DJJ0019878	DJJ0010675
Sample Date		Client Info		12 Apr 2024	20 Jul 2023	03 Mar 2023
Machine Age	hrs	Client Info		11651	10527	10023
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				SEVERE	ABNORMAL	NORMAL

WEAR

Bearing and/or bushing wear is indicated. Moderate concentration of visible metal present.

Iron	ppm	ASTM D5185m	>1200	898	453	410
Chromium	ppm	ASTM D5185m	>15	10	4	4
Nickel	ppm	ASTM D5185m	>5	3	0	<1
Titanium	ppm	ASTM D5185m	>5	<1	<1	0
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>5	2	<1	1
Lead	ppm	ASTM D5185m	>8	1	<1	0
Copper	ppm	ASTM D5185m	>325	▲ 546	211	169
Tin	ppm	ASTM D5185m	>15	▲ 12	4	3
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	▲ MODER	NONE	NONE

CONTAMINATION

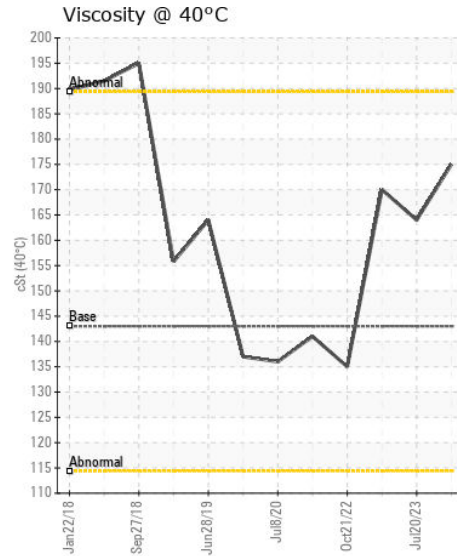
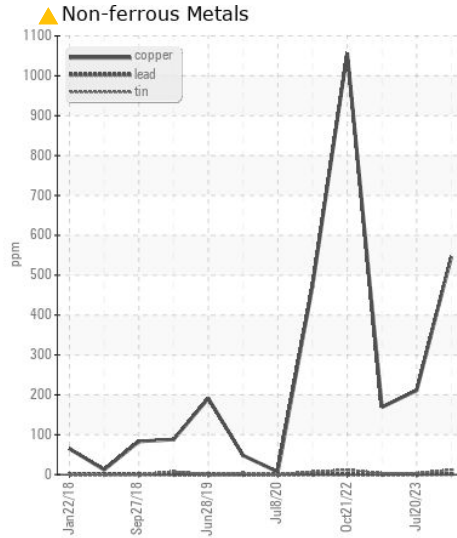
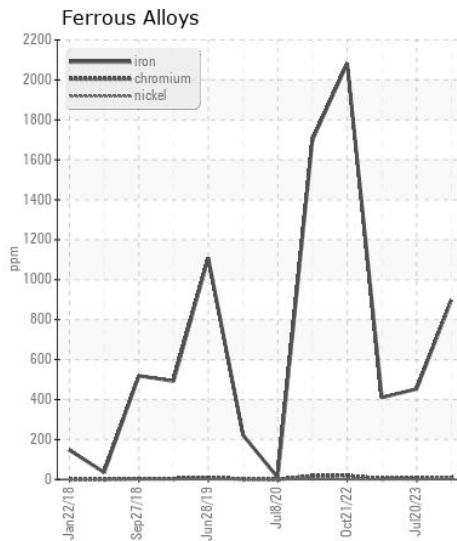
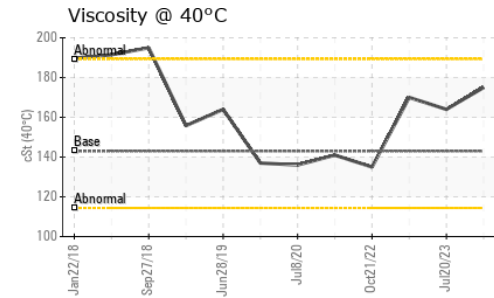
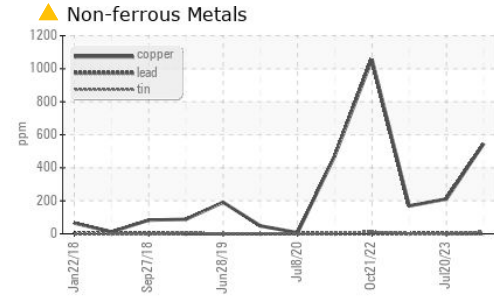
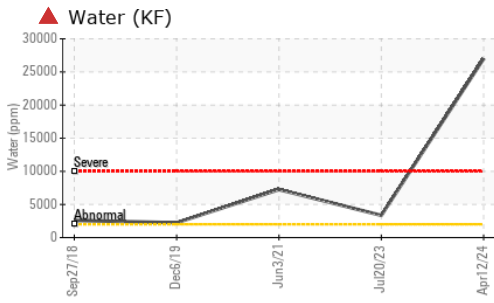
There is a high concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>10	6	<1	1
Potassium	ppm	ASTM D5185m	>20	1	0	<1
Water	%	ASTM D6304	>0.2	▲ 2.70	▲ 0.334	---
ppm Water	ppm	ASTM D6304	>2000	▲ 27000	▲ 3349.6	---
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	▲ 0.2%	▲ 0.2%	NEG

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>170	2	<1	<1
Boron	ppm	ASTM D5185m	400	67	45	25
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	2	<1	<1
Manganese	ppm	ASTM D5185m		8	3	3
Magnesium	ppm	ASTM D5185m	12	4	4	4
Calcium	ppm	ASTM D5185m	150	23	20	17
Phosphorus	ppm	ASTM D5185m	1650	804	616	570
Zinc	ppm	ASTM D5185m	125	39	21	27
Sulfur	ppm	ASTM D5185m	22500	22686	22360	20761
Visc @ 40°C	cSt	ASTM D445	143	175	164	170



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0022468
Lab Number : 06152381
Unique Number : 10982459
Test Package : CONST (Additional Tests: KF)

RIVER METALS RECYCLING - DECATUR FACILITY
 4301 IVERSON BLVD
 TRINITY, AL
 US 35673
 Contact: LARRY BARBER
 larry.barber@rmrecycling.com

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: