



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
RMR-Newport
Machine Id
23617 LIEBHERR A934C 040933-1007
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0017640	DJJ0016261	DJJ0004062
Sample Date		Client Info		24 May 2024	15 Feb 2023	23 Sep 2021
Machine Age	hrs	Client Info		13856	12299	10715
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	6	7	6
Chromium	ppm	ASTM D5185m	>5	<1	1	1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>2	<1	<1	1
Lead	ppm	ASTM D5185m	>5	0	<1	<1
Copper	ppm	ASTM D5185m	>15	2	1	2
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

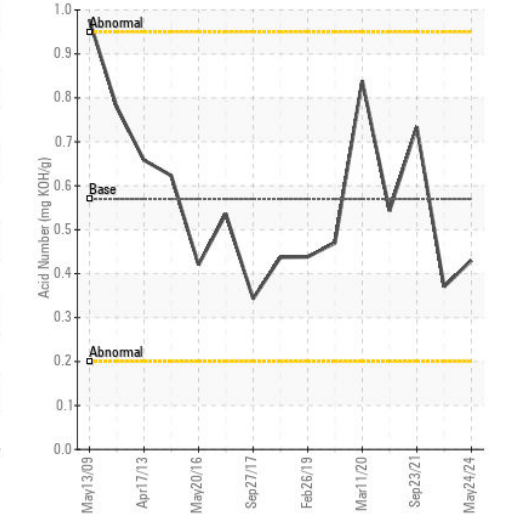
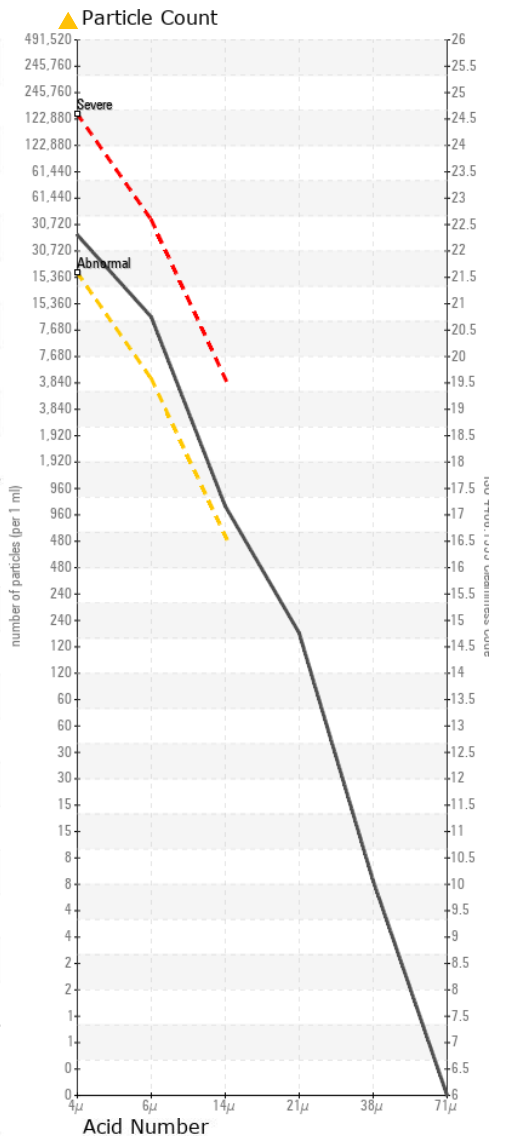
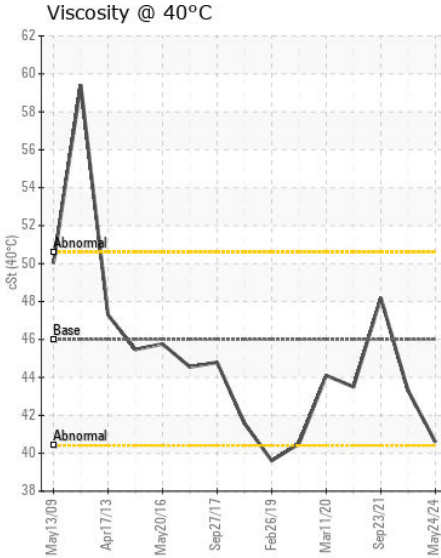
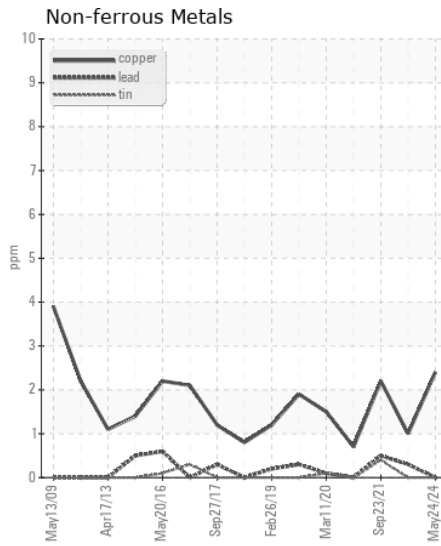
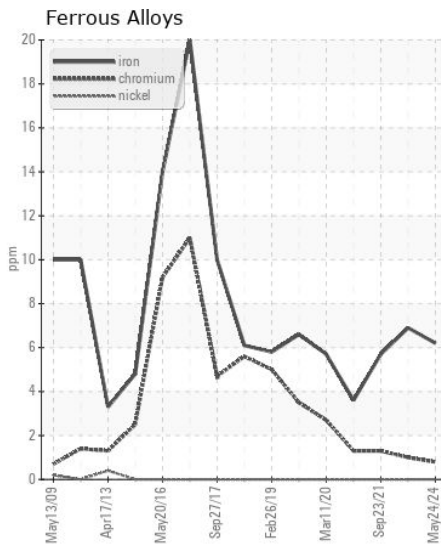
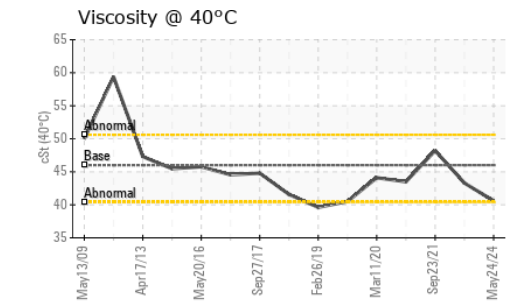
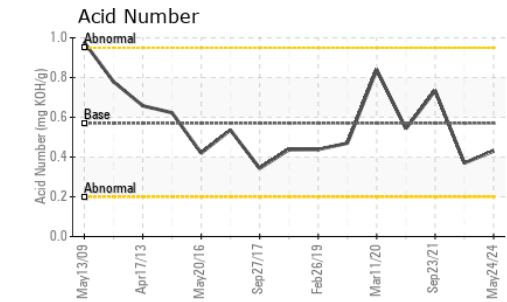
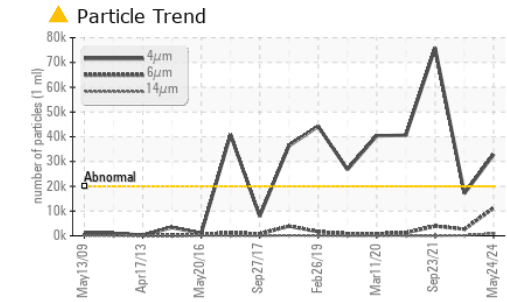
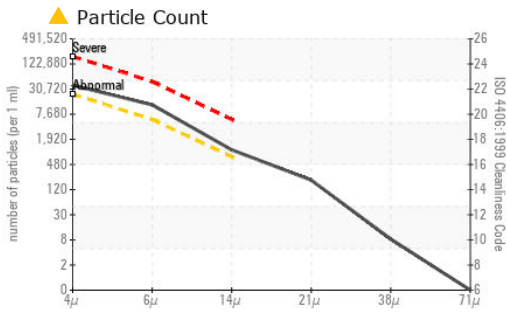
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	3	1	7
Potassium	ppm	ASTM D5185m	>20	3	0	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	▲ 32801	17086	▲ 75840
Particles >6µm		ASTM D7647	>5000	▲ 11220	2665	3904
Particles >14µm		ASTM D7647	>640	▲ 944	160	31
Particles >21µm		ASTM D7647	>160	▲ 179	26	5
Particles >38µm		ASTM D7647	>40	7	2	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 22/21/17	21/19/14	▲ 23/19/12
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		4	0	5
Boron	ppm	ASTM D5185m	5	43	6	55
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	20	6	18
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	25	124	24	191
Calcium	ppm	ASTM D5185m	200	396	142	794
Phosphorus	ppm	ASTM D5185m	300	368	363	552
Zinc	ppm	ASTM D5185m	370	413	484	559
Sulfur	ppm	ASTM D5185m	2500	2012	1047	2728
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.43	0.37	0.734
Visc @ 40°C	cSt	ASTM D445	46	40.6	43.3	48.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0017640 **Received** : 31 May 2024
Lab Number : 06196607 **Tested** : 03 Jun 2024
Unique Number : 11058730 **Diagnosed** : 03 Jun 2024 - Don Baldrige
Test Package : MOBCE

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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