CONST

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
RMR-Louisville
Machine Id
1217-99540 LIEBHERR LH60M 1217-99540
Component
Hydraulic System
Fluid
MV 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

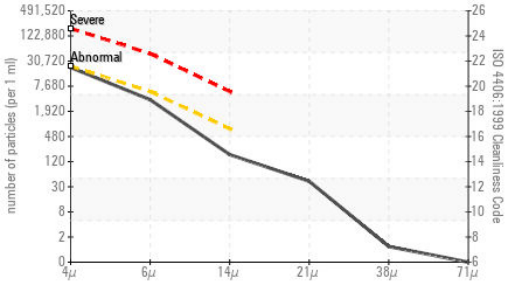
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

FLUID CONDITION

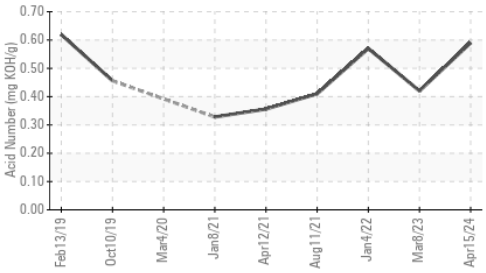
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0015451	DJJ0018003	DJJ0011447
Sample Date		Client Info		15 Apr 2024	08 Mar 2023	04 Jan 2022
Machine Age	hrs	Client Info		11784	10844	8552
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>60	4	9	8
Chromium	ppm	ASTM D5185m	>40	<1	1	1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	0	2	1
Lead	ppm	ASTM D5185m	>5	0	0	<1
Copper	ppm	ASTM D5185m	>15	2	3	2
Tin	ppm	ASTM D5185m	>5	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>15	2	3	4
Potassium	ppm	ASTM D5185m	>20	6	2	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	18745	5988	14087
Particles >6µm		ASTM D7647	>5000	3182	643	2303
Particles >14µm		ASTM D7647	>640	156	25	167
Particles >21µm		ASTM D7647	>160	36	3	54
Particles >38µm		ASTM D7647	>40	1	0	11
Particles >71µm		ASTM D7647	>10	0	0	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/19/14	20/17/12	21/18/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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
Sodium	ppm	ASTM D5185m		4	1	1
Boron	ppm	ASTM D5185m		34	30	29
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		17	13	13
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		77	118	98
Calcium	ppm	ASTM D5185m		341	472	330
Phosphorus	ppm	ASTM D5185m		408	415	396
Zinc	ppm	ASTM D5185m		417	469	464
Sulfur	ppm	ASTM D5185m		1899	2025	1868
Acid Number (AN)	mg KOH/g	ASTM D8045		0.59	0.42	0.57
Visc @ 40°C	cSt	ASTM D445		41.7	43.0	44.4

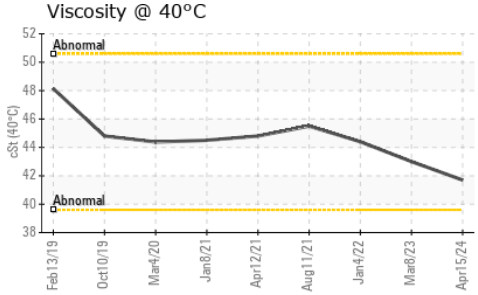
Particle Count



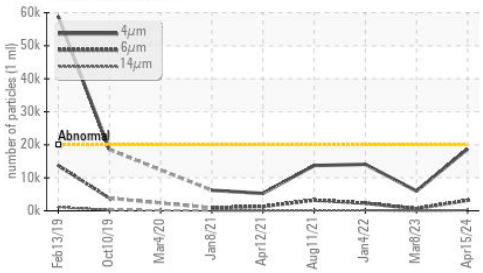
Acid Number



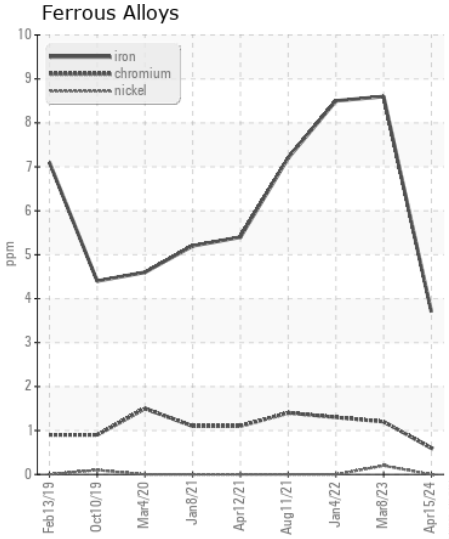
Viscosity @ 40°C



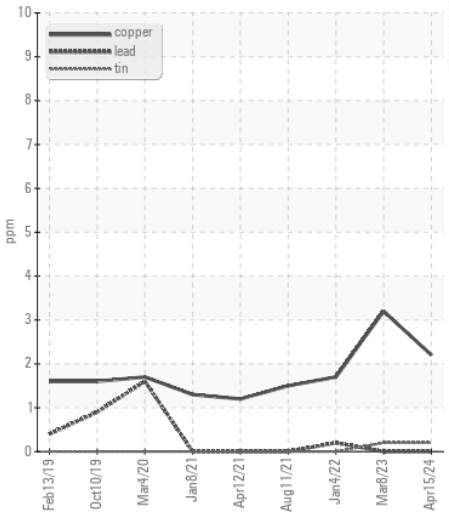
Particle Trend



Ferrous Alloys



Non-ferrous Metals



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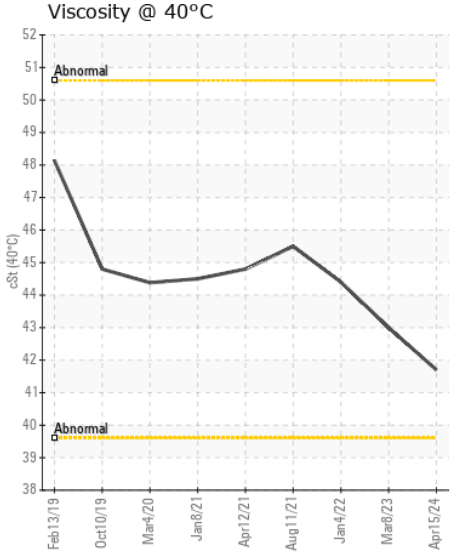
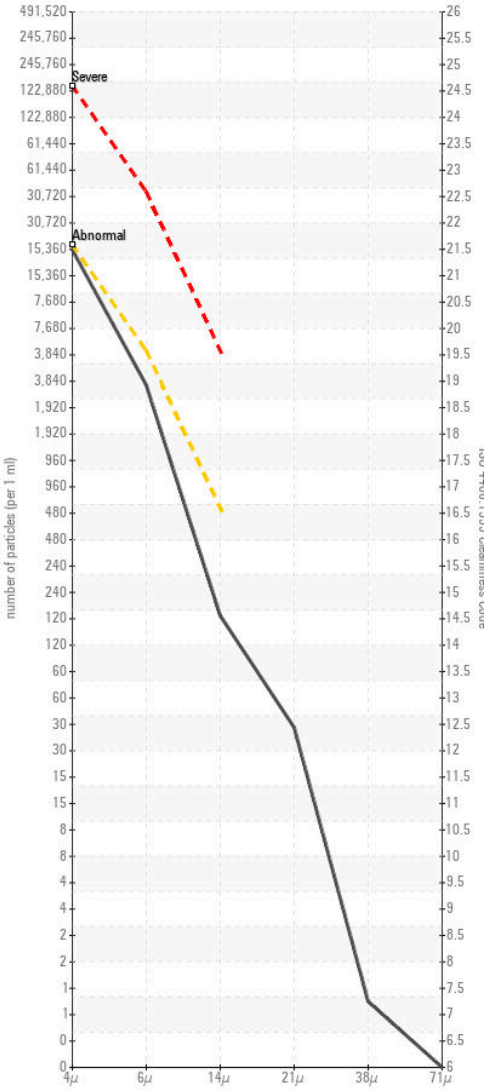
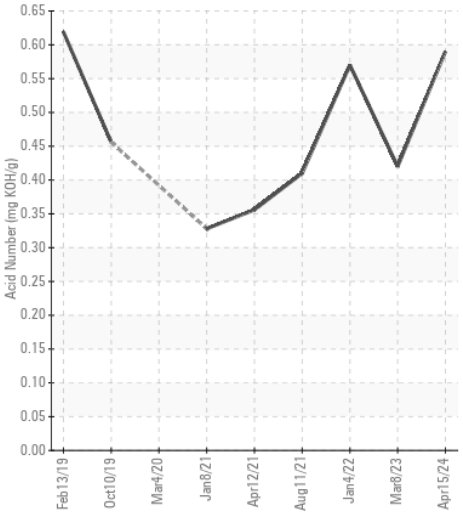


Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0015451
Lab Number : 06154294
Unique Number : 10989717
Test Package : CONST

Received : 19 Apr 2024
Tested : 22 Apr 2024
Diagnosed : 22 Apr 2024 - Wes Davis

RIVER METALS RECYCLING - LOUISVILLE
PO BOX 6521
LOUISVILLE, KY
US 40206
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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