



Machine Id
1690
Component
Hydraulic System
Fluid
MOBIL MOBILFLUID 424 (116 GAL)

RECOMMENDATION

We recommend an early resample to monitor this condition. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ST46499	ST44683	ST44335
Sample Date		Client Info		11 Jun 2024	13 Jun 2023	10 Jun 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

Bearing and/or bushing wear is indicated.

Iron	ppm	ASTM D5185m	>20	14	14	12
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	1	1	1
Lead	ppm	ASTM D5185m	>20	▲ 162	▲ 174	▲ 162
Copper	ppm	ASTM D5185m	>20	▲ 106	▲ 99	▲ 103
Tin	ppm	ASTM D5185m	>20	<1	2	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

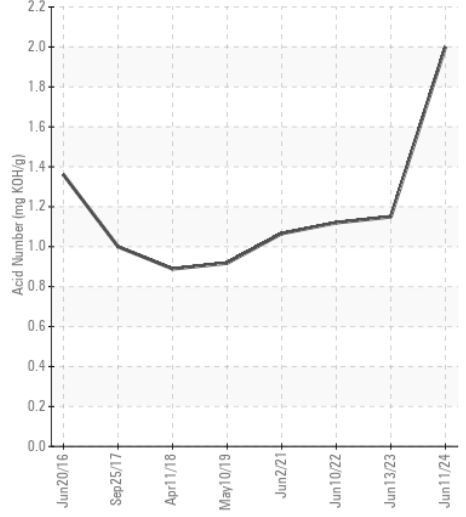
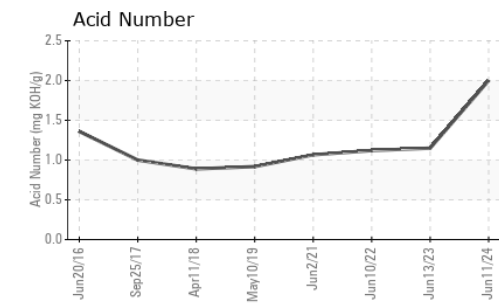
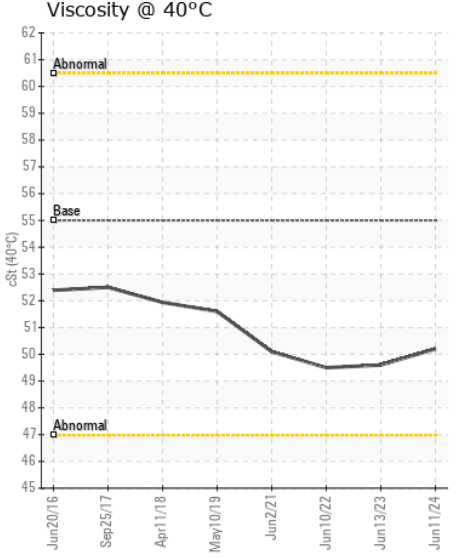
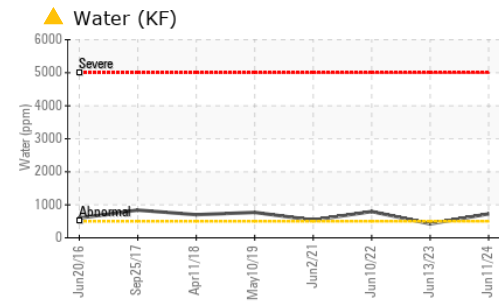
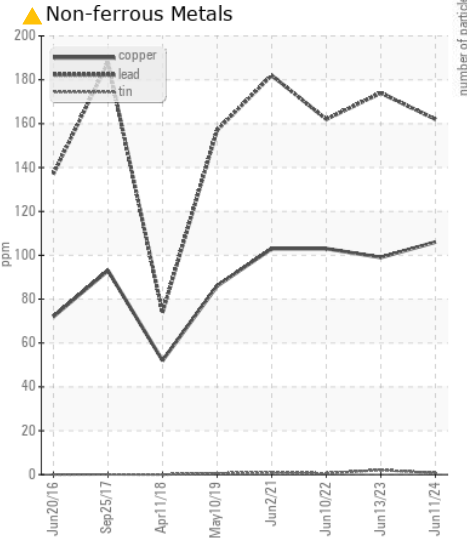
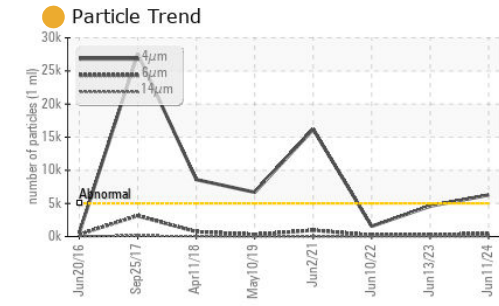
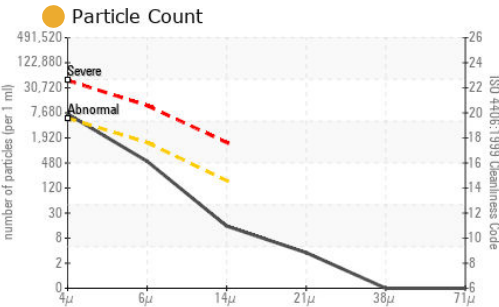
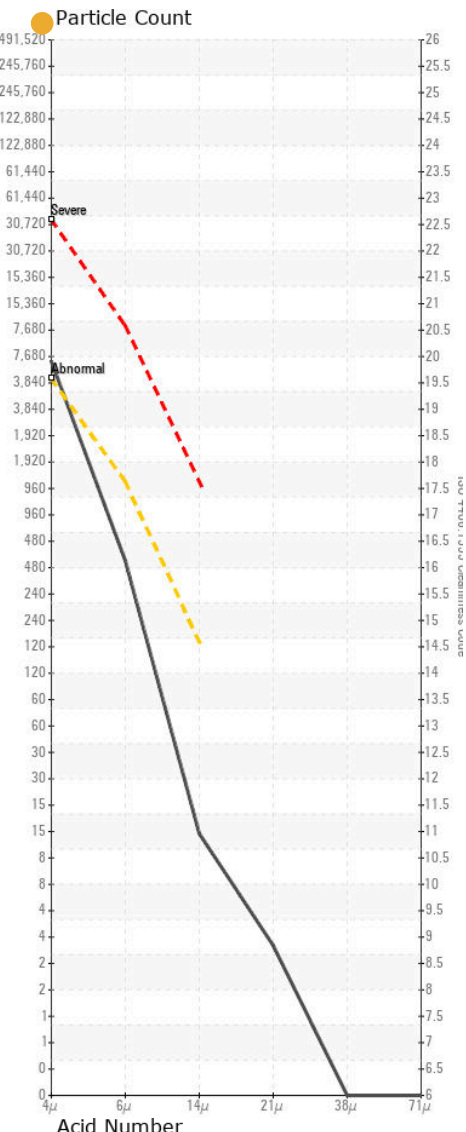
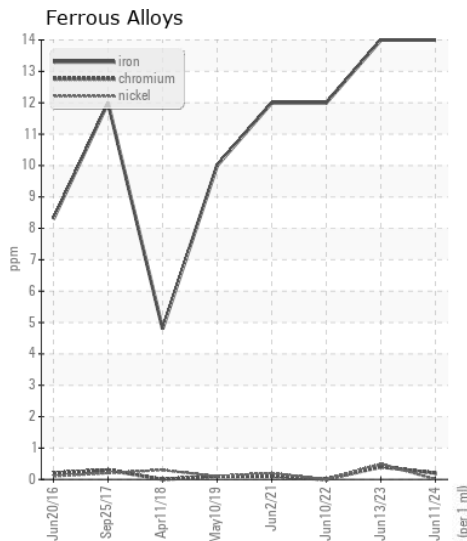
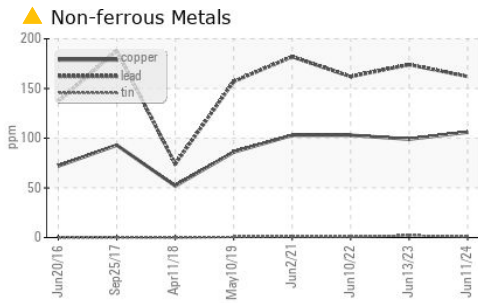
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. There is a trace of moisture present in the oil.

Silicon	ppm	ASTM D5185m	>15	32	33	30
Potassium	ppm	ASTM D5185m	>20	3	5	0
Water	%	ASTM D6304	>0.05	▲ 0.072	0.042	▲ 0.079
ppm Water	ppm	ASTM D6304	>500	▲ 726	424.7	▲ 796.8
Particles >4µm		ASTM D7647	>5000	● 6283	4600	1551
Particles >6µm		ASTM D7647	>1300	462	236	216
Particles >14µm		ASTM D7647	>160	13	9	15
Particles >21µm		ASTM D7647	>40	3	2	3
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● 20/16/11	19/15/10	18/15/11
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	>0.05	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		20	19	17
Boron	ppm	ASTM D5185m		73	88	99
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		2	2	2
Manganese	ppm	ASTM D5185m		3	3	2
Magnesium	ppm	ASTM D5185m		16	17	16
Calcium	ppm	ASTM D5185m		3240	3524	3264
Phosphorus	ppm	ASTM D5185m		1081	1194	1046
Zinc	ppm	ASTM D5185m		1217	1383	1206
Sulfur	ppm	ASTM D5185m		9219	11046	7871
Acid Number (AN)	mg KOH/g	ASTM D8045		2.00	1.15	1.12
Visc @ 40°C	cSt	ASTM D445	55	50.2	49.6	49.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ST46499 **Received** : 17 Jun 2024
Lab Number : 06212352 **Tested** : 19 Jun 2024
Unique Number : 11085216 **Diagnosed** : 19 Jun 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF)

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 90 OLIVE ST
 ATTLEBORO, MA
 US 02703
 Contact: DAVE SIMCOCK
 dsimcock@larsontool.com
 T: (508)222-0897
 F:

Certificate L2367
 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)