



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
OKLAHOMA/102/EG - OTHER SERVICE
 Machine Id
54.104L [OKLAHOMA^102^EG - OTHER SERVICE]
 Component
Hydraulic System
 Fluid
MOBIL MOBILFLUID 424 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count. (Customer Sample Comment: 1248 hours)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0864445	WC0741064	WC0662368
Sample Date		Client Info		14 May 2024	16 Nov 2022	16 Feb 2022
Machine Age	hrs	Client Info		1248	521	289
Oil Age	hrs	Client Info		580	232	289
Filter Age	hrs	Client Info		0	232	289
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	4	4	4
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>10	2	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	4	2	4
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

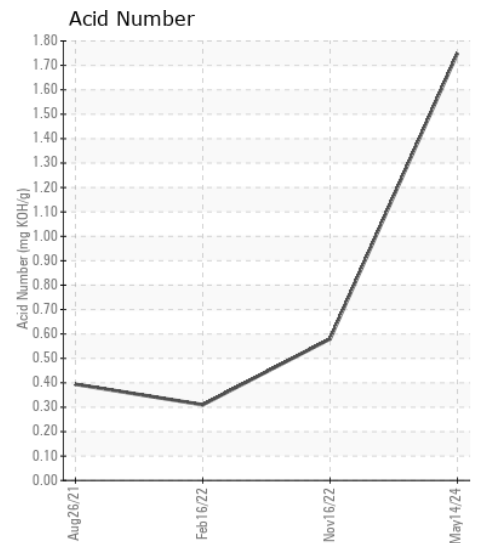
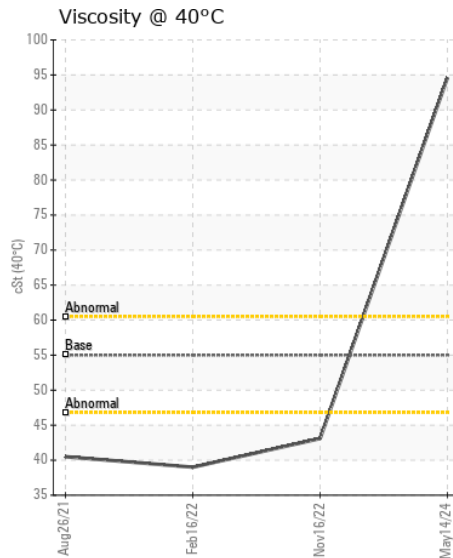
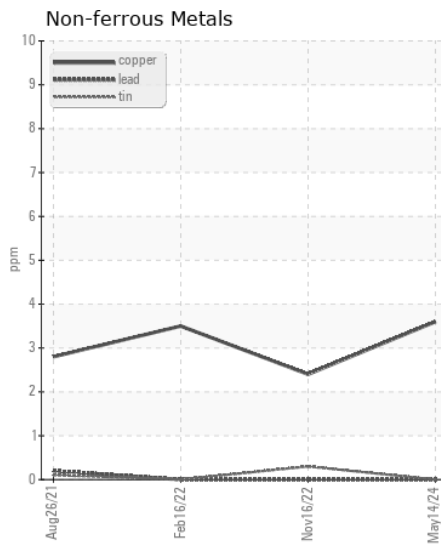
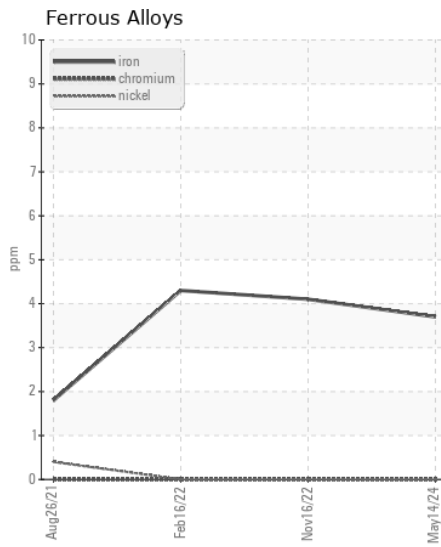
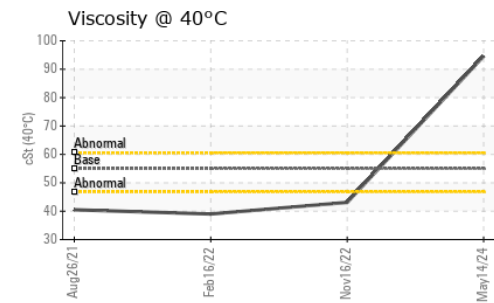
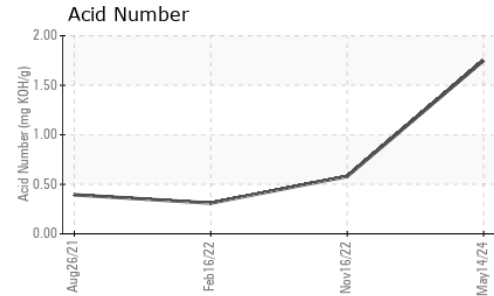
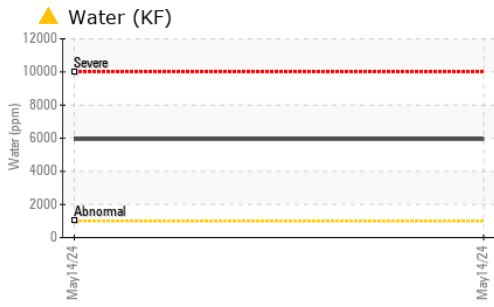
Appearance is hazy. There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>20	5	5	<1
Potassium	ppm	ASTM D5185m	>20	4	0	0
Water	%	ASTM D6304	>0.1	▲ 0.594	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 5940	---	---
Particles >4µm		ASTM D7647		---	18136	106191
Particles >6µm		ASTM D7647	>2500	---	▲ 5119	▲ 26602
Particles >14µm		ASTM D7647	>640	---	▲ 884	▲ 1222
Particles >21µm		ASTM D7647	>160	---	▲ 281	▲ 294
Particles >38µm		ASTM D7647	>40	---	13	9
Particles >71µm		ASTM D7647	>10	---	1	0
Oil Cleanliness		ISO 4406 (c)	>-/18/16	---	▲ 21/20/17	▲ 24/22/17
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	● HAZY	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	▲ 0.2%	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		2	3	0
Boron	ppm	ASTM D5185m		34	55	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		0	9	0
Calcium	ppm	ASTM D5185m		2571	1803	34
Phosphorus	ppm	ASTM D5185m		1009	732	371
Zinc	ppm	ASTM D5185m		1205	889	426
Sulfur	ppm	ASTM D5185m		5271	3278	1198
Acid Number (AN)	mg KOH/g	ASTM D8045		1.75	0.58	0.31
Visc @ 40°C	cSt	ASTM D445	55	94.6	43.1	39.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0864445 **Received** : 22 May 2024
Lab Number : 06187572 **Tested** : 24 May 2024
Unique Number : 11044324 **Diagnosed** : 24 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF)

SHERWOOD CONSTRUCTION CO INC
 3219 WEST MAY ST
 WICHITA, KS
 US 67213
 Contact: DOUG KING
 doug.king@sherwood.net
 T: (316)617-3161
 F: x:

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)