



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ATTENTION



Area
COLORADO/443/EG - LOADER
Machine Id
45.52L [COLORADO^443^EG - LOADER]
Component
Front Differential
Fluid
MOBIL MOBILFLUID 424 (9 GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

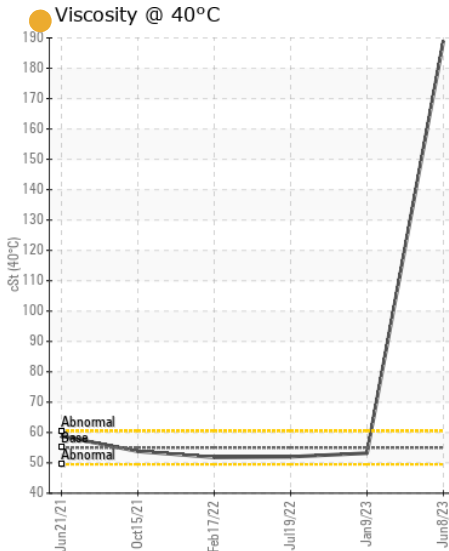
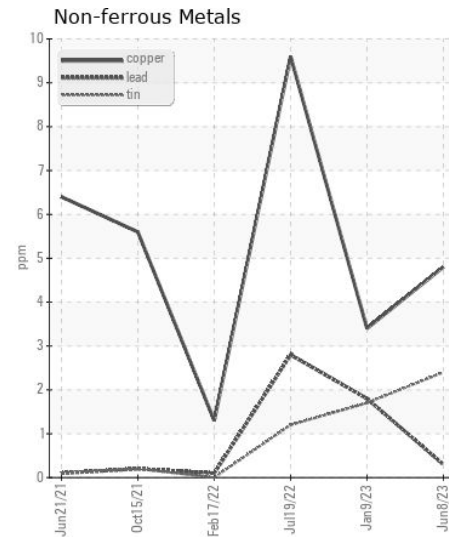
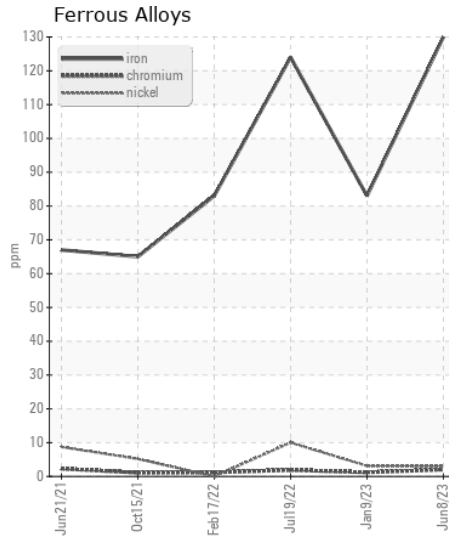
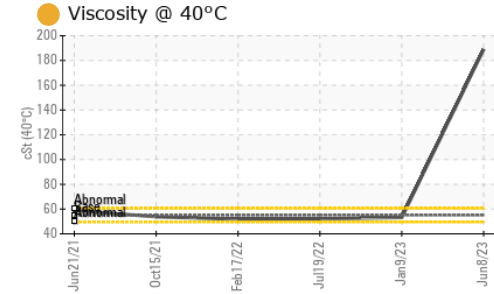
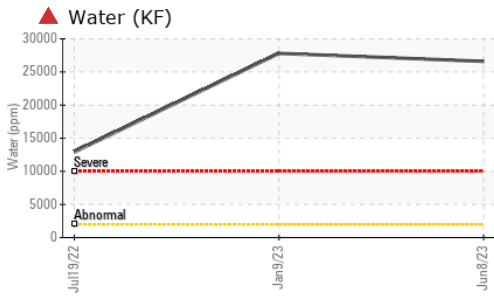
CONTAMINATION

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

FLUID CONDITION

The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0823239	WC0766090	WC0703467
Sample Date		Client Info		08 Jun 2023	09 Jan 2023	19 Jul 2022
Machine Age	hrs	Client Info		3532	2977	2527
Oil Age	hrs	Client Info		555	0	1150
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		Not Changed	N/A	Not Changed
Sample Status				SEVERE	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>500	130	83	124
Chromium	ppm	ASTM D5185m	>3	2	1	2
Nickel	ppm	ASTM D5185m	>3	3	3	10
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	3
Aluminum	ppm	ASTM D5185m	>30	3	1	7
Lead	ppm	ASTM D5185m	>13	<1	2	3
Copper	ppm	ASTM D5185m	>103	5	3	10
Tin	ppm	ASTM D5185m	>5	2	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
Silicon	ppm	ASTM D5185m	>100	23	14	22
Potassium	ppm	ASTM D5185m	>20	2	1	<1
Water	%	ASTM D6304	>.2	▲ 2.66	▲ 2.78	▲ 1.29
ppm Water	ppm	ASTM D6304	>2000	▲ 26600	▲ 27800	▲ 12900
Silt	scalar	*Visual	NONE	NONE	NONE	LIGHT
Debris	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	● MILKY	● MILKY	● MILKY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	▲ 0.2%	NEG	▲ 0.2%
Sodium	ppm	ASTM D5185m		1	4	14
Boron	ppm	ASTM D5185m		41	118	136
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		4	7	7
Manganese	ppm	ASTM D5185m		2	1	2
Magnesium	ppm	ASTM D5185m		13	37	21
Calcium	ppm	ASTM D5185m		2772	3531	3833
Phosphorus	ppm	ASTM D5185m		985	1129	1348
Zinc	ppm	ASTM D5185m		1303	1475	1595
Sulfur	ppm	ASTM D5185m		5209	4958	6077
Visc @ 40°C	cSt	ASTM D445	55	● 189	53.2	52.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0823239 **Received** : 13 Jun 2023
Lab Number : 05872824 **Tested** : 15 Jun 2023
Unique Number : 10512608 **Diagnosed** : 15 Jun 2023 - 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)