



OIL ANALYSIS REPORT

Area
COLORADO/443
 Machine Id
45.67L [COLORADO^443]
 Component
Rear Differential
 Fluid
MOBIL MOBILFLUID 424 (--- GAL)

Sample Rating Trend



WATER



DIAGNOSIS

▲ Recommendation

We advise that you check for the source of water entry. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

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

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0928680	---	---
Sample Date	Client Info		10 Jun 2024	---	---
Machine Age	hrs	Client Info	646	---	---
Oil Age	hrs	Client Info	646	---	---
Oil Changed	Client Info		Not Chngd	---	---
Sample Status			ABNORMAL	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	487	---	---
Chromium	ppm	ASTM D5185m >3	6	---	---
Nickel	ppm	ASTM D5185m >3	16	---	---
Titanium	ppm	ASTM D5185m >2	<1	---	---
Silver	ppm	ASTM D5185m >2	0	---	---
Aluminum	ppm	ASTM D5185m >30	2	---	---
Lead	ppm	ASTM D5185m >13	<1	---	---
Copper	ppm	ASTM D5185m >103	50	---	---
Tin	ppm	ASTM D5185m >5	2	---	---
Vanadium	ppm	ASTM D5185m	0	---	---
Cadmium	ppm	ASTM D5185m	<1	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	124	---	---
Barium	ppm	ASTM D5185m	0	---	---
Molybdenum	ppm	ASTM D5185m	<1	---	---
Manganese	ppm	ASTM D5185m	9	---	---
Magnesium	ppm	ASTM D5185m	15	---	---
Calcium	ppm	ASTM D5185m	3299	---	---
Phosphorus	ppm	ASTM D5185m	1116	---	---
Zinc	ppm	ASTM D5185m	1464	---	---
Sulfur	ppm	ASTM D5185m	3983	---	---

CONTAMINANTS

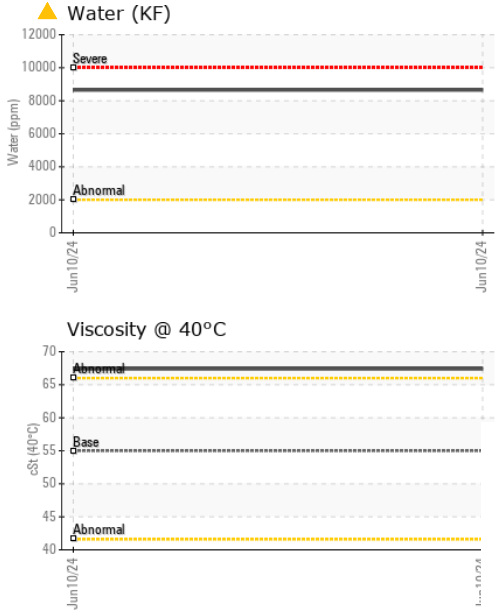
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >100	22	---	---
Sodium	ppm	ASTM D5185m	24	---	---
Potassium	ppm	ASTM D5185m >20	2	---	---
Water	%	ASTM D6304 >.2	▲ 0.865	---	---
ppm Water	ppm	ASTM D6304 >2000	▲ 8650	---	---

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	---	---
Yellow Metal	scalar	*Visual NONE	NONE	---	---
Precipitate	scalar	*Visual NONE	NONE	---	---
Silt	scalar	*Visual NONE	NONE	---	---
Debris	scalar	*Visual NONE	NONE	---	---
Sand/Dirt	scalar	*Visual NONE	NONE	---	---
Appearance	scalar	*Visual NORML	NORML	---	---
Odor	scalar	*Visual NORML	NORML	---	---
Emulsified Water	scalar	*Visual >.2	0.2%	---	---
Free Water	scalar	*Visual	NEG	---	---



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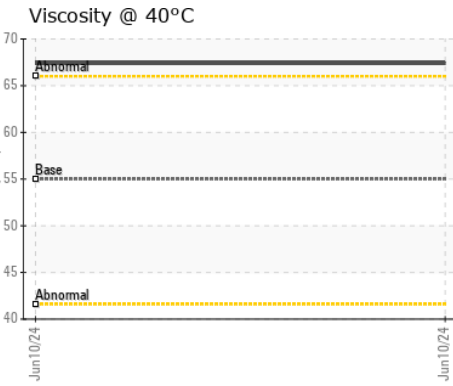
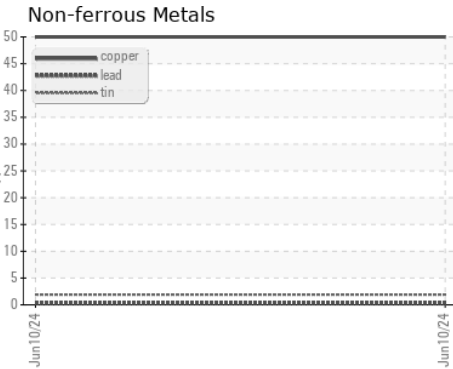
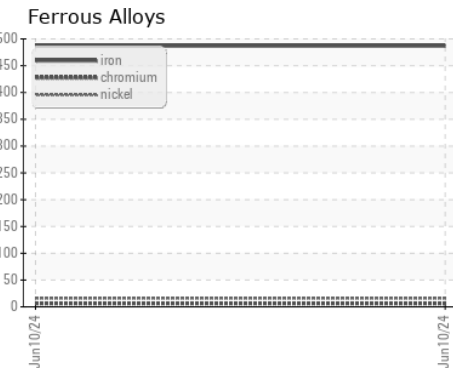
FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445 55	67.4	---	---

SAMPLE IMAGES

method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0928680 **Received** : 12 Jun 2024
Lab Number : **06208178** **Tested** : 14 Jun 2024
Unique Number : 11075639 **Diagnosed** : 14 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF)

SHERWOOD CONSTRUCTION CO INC
 3219 WEST MAY ST
 WICHITA, KS
 US 67213
 Contact: BILL ORCUTT
 william.orcutt@wildcat.net

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)

T:
F: