



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
OKLAHOMA/102
Machine Id
45.63L [OKLAHOMA^102]
Component
Rear Differential
Fluid
MOBIL MOBILFLUID 424 (5 GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0886879	WC0848880	WC0584642
Sample Date		Client Info		30 Jan 2024	09 Sep 2023	14 Jan 2022
Machine Age	hrs	Client Info		1755	1430	11
Oil Age	hrs	Client Info		1000	500	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	245	241	17
Chromium	ppm	ASTM D5185m	>3	2	5	<1
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	0	<1	2
Lead	ppm	ASTM D5185m	>13	0	0	0
Copper	ppm	ASTM D5185m	>103	4	5	<1
Tin	ppm	ASTM D5185m	>5	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

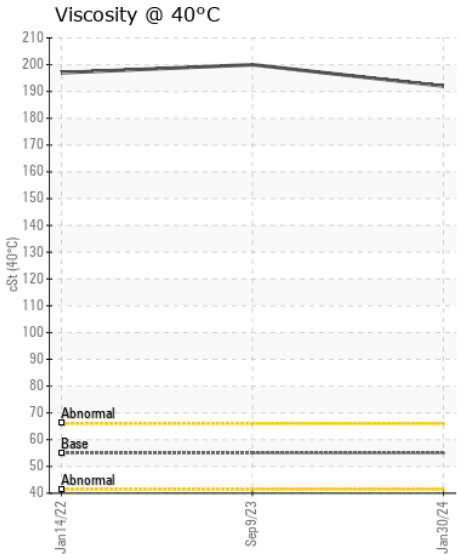
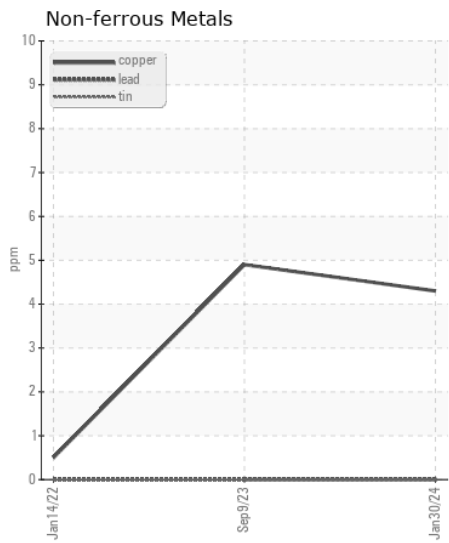
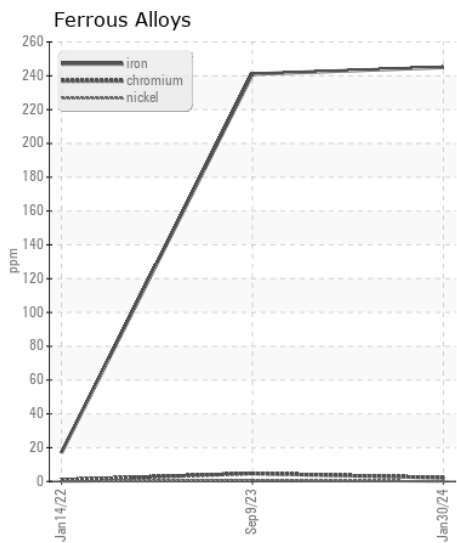
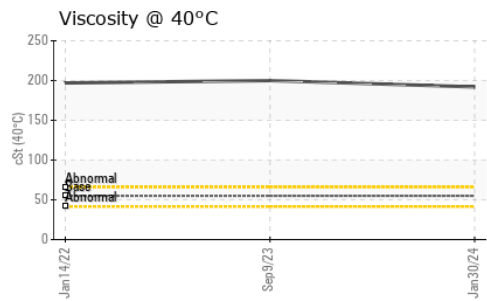
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	16	23	16
Potassium	ppm	ASTM D5185m	>20	<1	2	<1
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	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	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		11	8	2
Boron	ppm	ASTM D5185m		0	2	4
Barium	ppm	ASTM D5185m		0	0	3
Molybdenum	ppm	ASTM D5185m		40	19	3
Manganese	ppm	ASTM D5185m		7	8	4
Magnesium	ppm	ASTM D5185m		0	2	19
Calcium	ppm	ASTM D5185m		14	41	64
Phosphorus	ppm	ASTM D5185m		1746	2011	2068
Zinc	ppm	ASTM D5185m		50	73	58
Sulfur	ppm	ASTM D5185m		24274	29632	23343
Visc @ 40°C	cSt	ASTM D445	55	192	200	197



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0886879
Lab Number : 06098768
Unique Number : 10896998
Test Package : CONST
Received : 23 Feb 2024
Tested : 26 Feb 2024
Diagnosed : 26 Feb 2024 - Don Baldrige

SHERWOOD CONSTRUCTION CO INC
 3219 WEST MAY ST
 WICHITA, KS
 US 67213
 Contact: SHAWN SOUTH
 shawn.south@sherwood.net
 T: x:
 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)