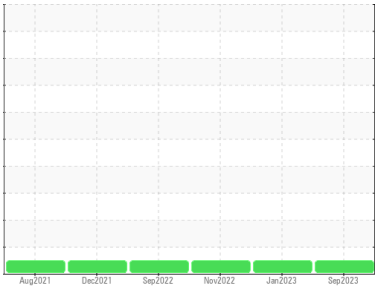
OIL ANALYSIS REPORT

Area
OKLAHOMA/102
Machine Id
45.59L [OKLAHOMA^102]
Component
Front Differential
Fluid
MOBIL MOBILFLUID 424 (6 GAL)

Sample Rating Trend



NORMAL

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor. (Customer Sample Comment: 4299 hrs)

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination 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		**WC0819982**	WC0603246	WC0603189
Sample Date		Client Info		**22 Sep 2023**	17 Jan 2023	30 Nov 2022
Machine Age	hrs	Client Info		**4299**	3509	3386
Oil Age	hrs	Client Info		**2496**	2496	2496
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**NORMAL**	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	**68**	47	133
Chromium	ppm	ASTM D5185m	>3	**1**	1	3
Nickel	ppm	ASTM D5185m	>3	**3**	3	9
Titanium	ppm	ASTM D5185m	>2	**0**	<1	<1
Silver	ppm	ASTM D5185m	>2	**0**	0	<1
Aluminum	ppm	ASTM D5185m	>30	**0**	1	2
Lead	ppm	ASTM D5185m	>13	**<1**	<1	<1
Copper	ppm	ASTM D5185m	>103	**1**	<1	2
Tin	ppm	ASTM D5185m	>5	**<1**	<1	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**130**	106	120
Barium	ppm	ASTM D5185m		**0**	2	<1
Molybdenum	ppm	ASTM D5185m		**4**	3	7
Manganese	ppm	ASTM D5185m		**2**	1	3
Magnesium	ppm	ASTM D5185m		**26**	26	19
Calcium	ppm	ASTM D5185m		**3444**	3335	3669
Phosphorus	ppm	ASTM D5185m		**1125**	1028	1133
Zinc	ppm	ASTM D5185m		**1419**	1334	1372
Sulfur	ppm	ASTM D5185m		**5957**	5916	5186

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	**14**	13	16
Sodium	ppm	ASTM D5185m		**7**	7	12
Potassium	ppm	ASTM D5185m	>20	**0**	0	0

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
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	>.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	55	**52.4**	56.1	50.2

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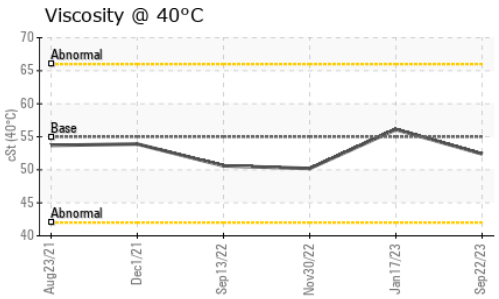
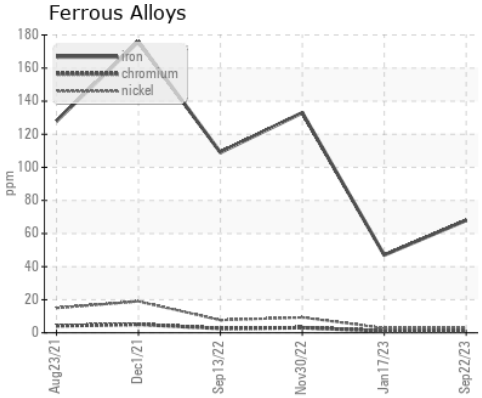


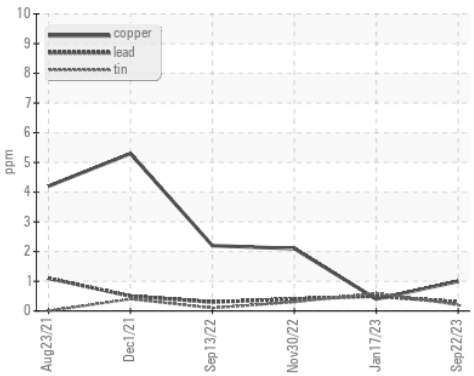
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS

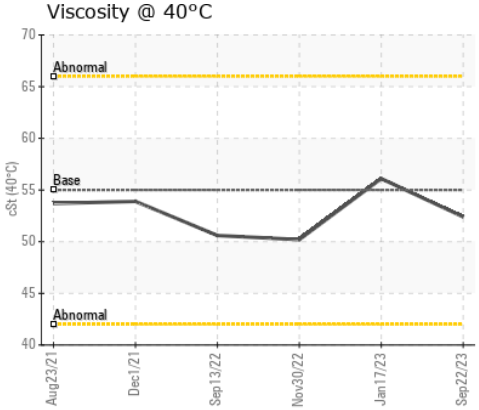
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: WC0819982	**Received**	: 02 Oct 2023
Lab Number	: 05967241	**Diagnosed**	: 04 Oct 2023
Unique Number	: 10673792	**Diagnostician**	: Angela Borella
Test Package	: CONST		

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)

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Report Id: SHEWIC [WUSCAR] 05967241 (Generated: 10/04/2023 17:12:42) Rev: 1

Submitted By: LOUIS BRESHEARS