



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Area
OKLAHOMA/1053/EG - LOADER
Machine Id
45.39L [OKLAHOMA^1053^EG - LOADER]
Component
Rear Differential
Fluid
MOBIL MOBILFLUID 424 (--- 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		WC0808032	WC0713308	WC0598674
Sample Date		Client Info		17 Aug 2023	29 Jul 2022	20 Jul 2021
Machine Age	hrs	Client Info		12217	11008	9616
Oil Age	hrs	Client Info		1209	4332	500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	62	182	292
Chromium	ppm	ASTM D5185m	>3	<1	3	4
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>30	0	2	0
Lead	ppm	ASTM D5185m	>13	0	<1	<1
Copper	ppm	ASTM D5185m	>103	2	3	4
Tin	ppm	ASTM D5185m	>5	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

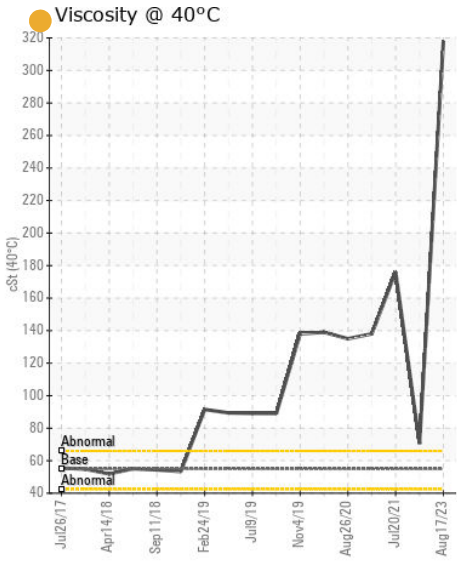
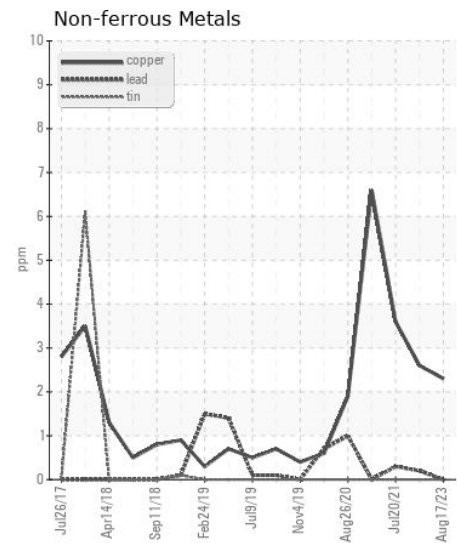
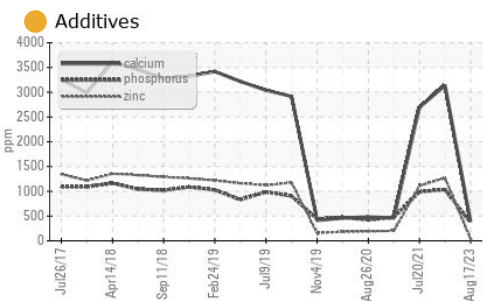
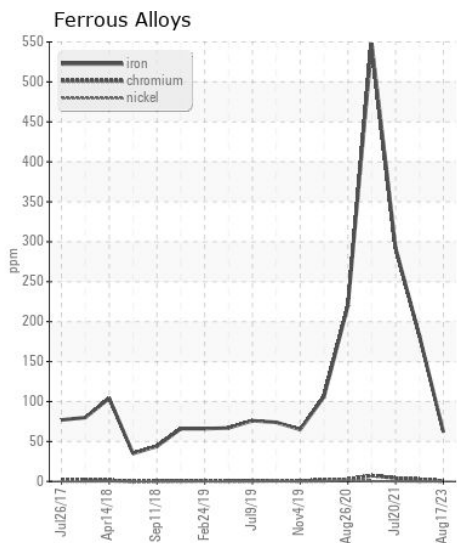
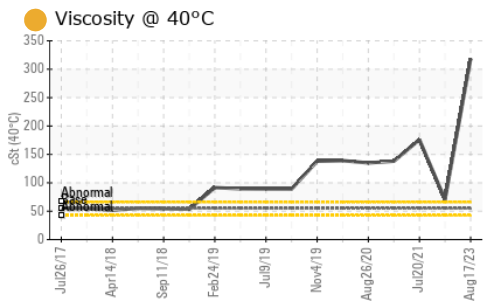
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	3	13	9
Potassium	ppm	ASTM D5185m	>20	0	1	<1
Water		WC Method	>.2	NEG	NEG	NEG
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

FLUID CONDITION

The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		6	0	1
Boron	ppm	ASTM D5185m		112	98	17
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		0	7	19
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m		2	16	24
Calcium	ppm	ASTM D5185m		387	3136	2695
Phosphorus	ppm	ASTM D5185m		368	1032	988
Zinc	ppm	ASTM D5185m		44	1269	1112
Sulfur	ppm	ASTM D5185m		9911	5415	9061
Visc @ 40°C	cSt	ASTM D445	55	318	70.6	176



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0808032
Lab Number : 05935034
Unique Number : 10620305
Test Package : CONST
Received : 25 Aug 2023
Tested : 28 Aug 2023
Diagnosed : 28 Aug 2023 - Sean Felton

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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)