

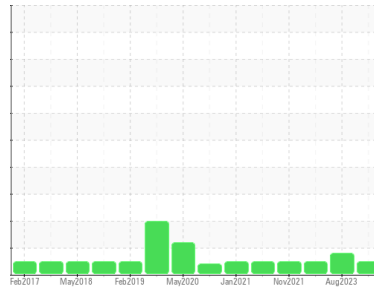


OIL ANALYSIS REPORT



Area
OKLAHOMA/102/EG - LOADER
 Machine Id
46.84L [OKLAHOMA^102^EG - LOADER]
 Component
Hydraulic System
 Fluid
MOBIL MOBILTRANS AST 30 (--- GAL)

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation
 Resample at the next service interval to monitor.

Wear
 All component wear rates are normal.

Contamination
 The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition
 The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0935271	WC0833974	WC0769678
Sample Date	Client Info		28 Jun 2024	15 Aug 2023	17 Feb 2023
Machine Age	hrs	Client Info	7203	6712	6338
Oil Age	hrs	Client Info	2986	500	500
Oil Changed	Client Info		Not Chngd	N/A	N/A
Sample Status			NORMAL	ATTENTION	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	5	6	3
Chromium	ppm	ASTM D5185m >10	0	<1	0
Nickel	ppm	ASTM D5185m >10	0	0	0
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >10	2	3	2
Lead	ppm	ASTM D5185m >10	0	1	2
Copper	ppm	ASTM D5185m >75	2	2	1
Tin	ppm	ASTM D5185m >10	0	<1	0
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	36	27	24
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	<1	<1	<1
Manganese	ppm	ASTM D5185m	0	<1	<1
Magnesium	ppm	ASTM D5185m	13	20	12
Calcium	ppm	ASTM D5185m	2715	2225	2409
Phosphorus	ppm	ASTM D5185m	965	835	790
Zinc	ppm	ASTM D5185m	1117	1056	1026
Sulfur	ppm	ASTM D5185m	4835	4681	4085

CONTAMINANTS

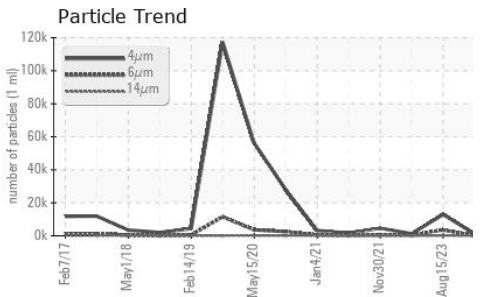
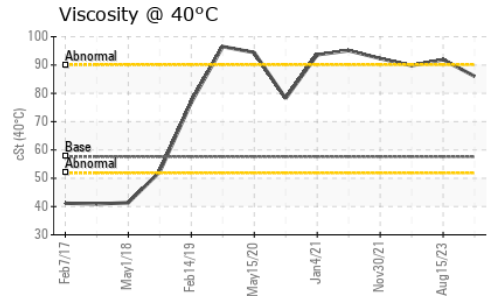
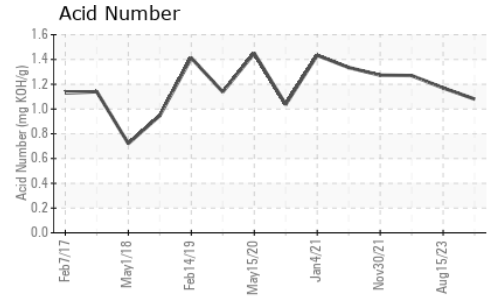
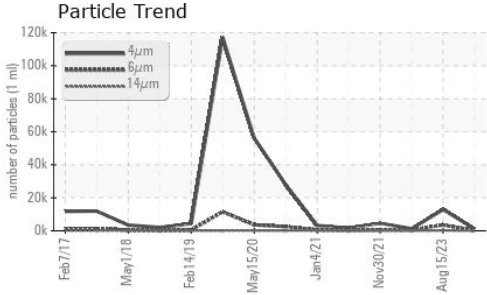
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	8	7	6
Sodium	ppm	ASTM D5185m	4	3	1
Potassium	ppm	ASTM D5185m >20	<1	3	0

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		1148	12820	1273
Particles >6µm	ASTM D7647	>2500	104	3560	368
Particles >14µm	ASTM D7647	>640	9	172	22
Particles >21µm	ASTM D7647	>160	1	29	3
Particles >38µm	ASTM D7647	>40	0	1	0
Particles >71µm	ASTM D7647	>10	0	0	0
Oil Cleanliness	ISO 4406 (c)	>--/18/16	17/14/10	21/19/15	17/16/12



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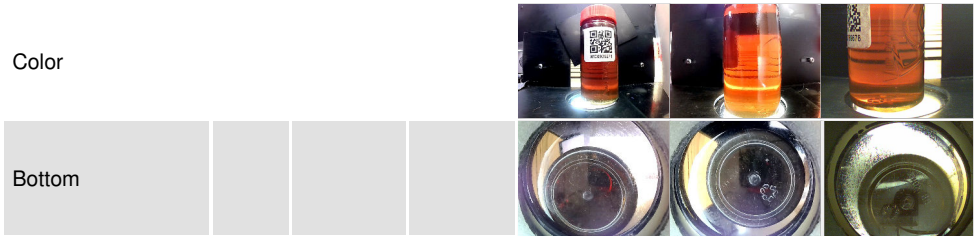


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.08	1.17	1.27

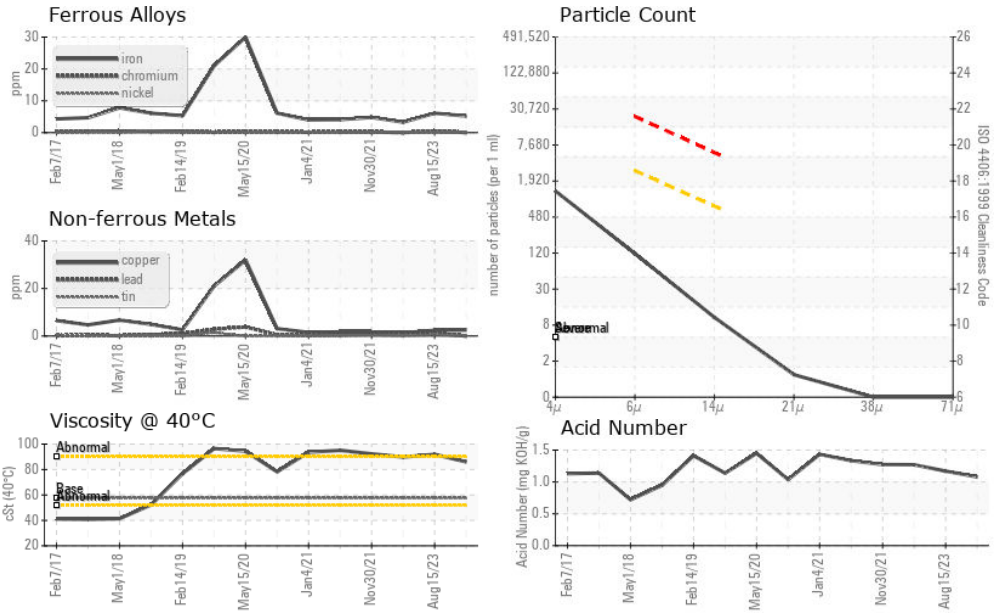
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.6	86.0	91.9	89.8

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0935271 **Received** : 12 Jul 2024
Lab Number : 06234801 **Tested** : 15 Jul 2024
Unique Number : 11123635 **Diagnosed** : 15 Jul 2024 - Wes Davis
Test Package : CONST

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 3219 WEST MAY ST
 WICHITA, KS
 US 67213
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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)