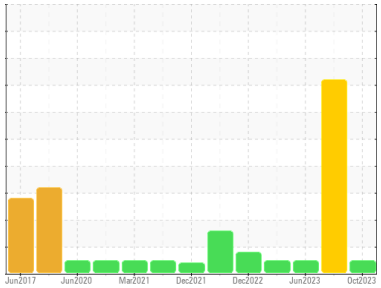
OIL ANALYSIS REPORT

Area
OKLAHOMA/102/EG - LOADER
Machine Id
45.38L [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		**WC0857268**	WC0848930	WC0821725
Sample Date		Client Info		**23 Oct 2023**	18 Sep 2023	03 Jun 2023
Machine Age	hrs	Client Info		**8283**	8283	7873
Oil Age	hrs	Client Info		**500**	500	500
Oil Changed		Client Info		**N/A**	Not Changd	Not Changd
Sample Status				**NORMAL**	SEVERE	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**6**	13	8
Chromium	ppm	ASTM D5185m	>10	**<1**	0	<1
Nickel	ppm	ASTM D5185m	>10	**<1**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>10	**3**	1	<1
Lead	ppm	ASTM D5185m	>10	**2**	0	<1
Copper	ppm	ASTM D5185m	>75	**3**	3	3
Tin	ppm	ASTM D5185m	>10	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**55**	67	74
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	6
Manganese	ppm	ASTM D5185m		**<1**	0	<1
Magnesium	ppm	ASTM D5185m		**18**	20	13
Calcium	ppm	ASTM D5185m		**2639**	2878	2573
Phosphorus	ppm	ASTM D5185m		**993**	991	930
Zinc	ppm	ASTM D5185m		**1247**	1286	1129
Sulfur	ppm	ASTM D5185m		**4486**	5068	4296

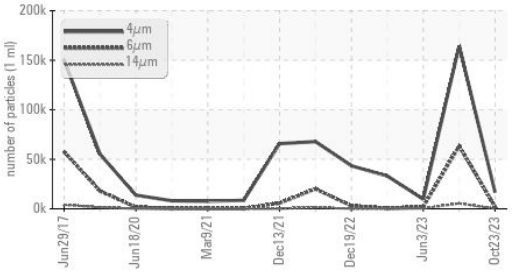
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**10**	11	10
Sodium	ppm	ASTM D5185m		**6**	6	2
Potassium	ppm	ASTM D5185m	>20	**2**	3	5

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**16803**	164435	9714
Particles >6µm		ASTM D7647	>2500	**2268**	⬢ 63214	1968
Particles >14µm		ASTM D7647	>640	**128**	⬢ 5431	410
Particles >21µm		ASTM D7647	>160	**34**	⬢ 1373	178
Particles >38µm		ASTM D7647	>40	**1**	▲ 63	5
Particles >71µm		ASTM D7647	>10	**0**	3	0
Oil Cleanliness		ISO 4406 (c)	>--/18/16	**21/18/14**	⬢ 25/23/20	20/18/16

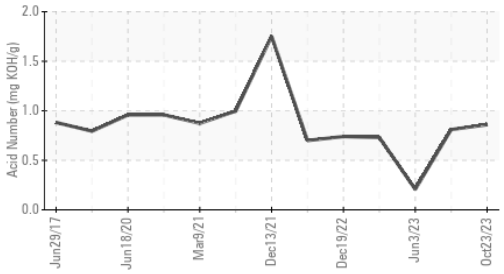
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.86**	0.81	0.207

OIL ANALYSIS REPORT

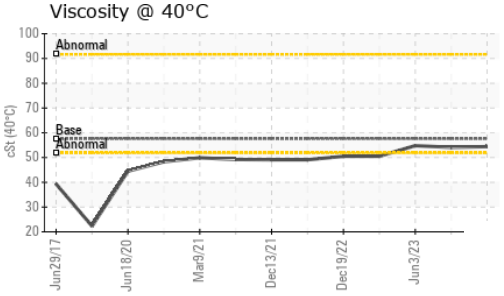
Particle Trend



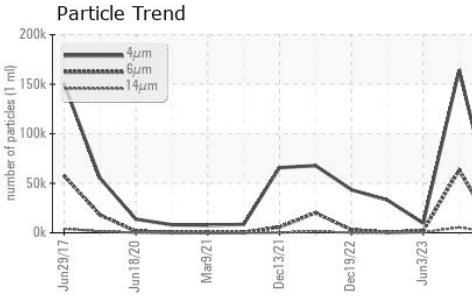
Acid Number



Viscosity @ 40°C



Particle Trend



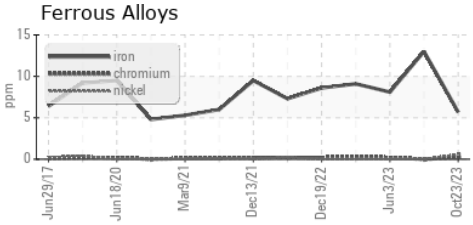
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>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	**54.4**	54.1	54.8

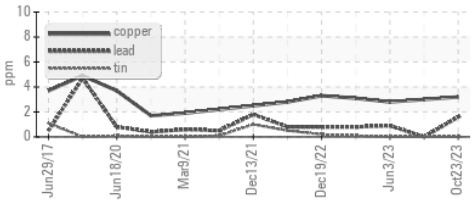
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

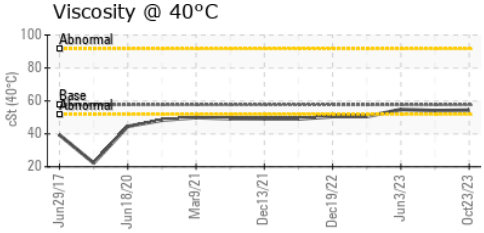
Ferrous Alloys



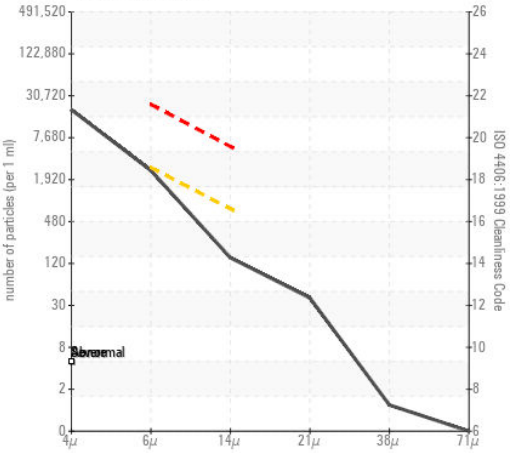
Non-ferrous Metals



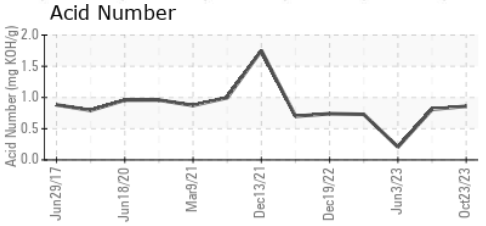
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0857268
Lab Number : 06000441
Unique Number : 10728801
Test Package : CONST

Received : 07 Nov 2023
Diagnosed : 08 Nov 2023
Diagnostician : Wes Davis

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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