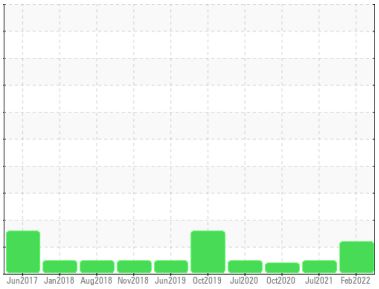
PROBLEM SUMMARY

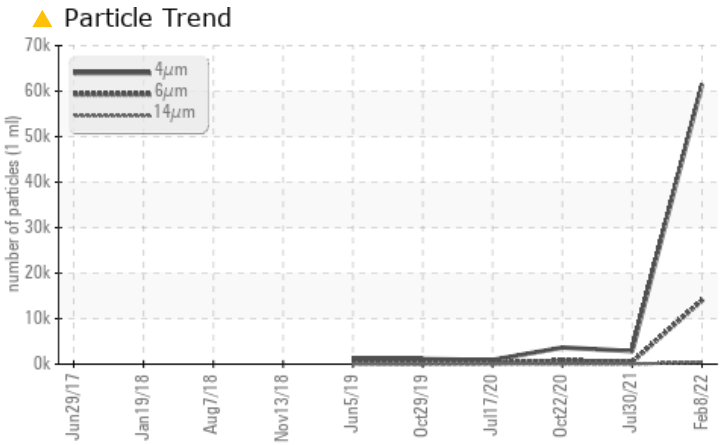
Area
OKLAHOMA/3/EG - LOADER
Machine Id
50.25L [OKLAHOMA^3^EG - LOADER]
Component
Steering
Fluid
MOBIL MOBILTRANS AST 30 (--- GAL)

Sample Rating Trend



ISO

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	ATTENTION
Particles >6µm		ASTM D7647	>640	▲ **14031**	525	▲ 741
Particles >14µm		ASTM D7647	>80	▲ **397**	20	40
Particles >21µm		ASTM D7647	>20	▲ **47**	3	9
Oil Cleanliness		ISO 4406 (c)	>--/16/13	▲ **23/21/16**	19/16/11	▲ 19/17/12

Customer Id: SHEWIC
Sample No.: WC0662473
Lab Number: 05465909
Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

30 Jul 2021 Diag: Don Baldridge

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

22 Oct 2020 Diag: Don Baldridge

ISO

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the fluid. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

view report

17 Jul 2020 Diag: Don Baldridge

NORMAL

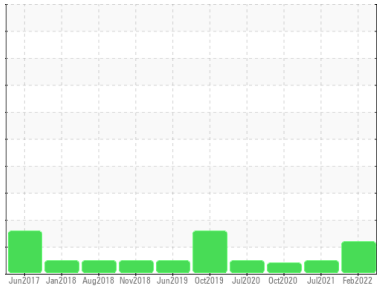
Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Area
OKLAHOMA/3/EG - LOADER
Machine Id
50.25L [OKLAHOMA^3^EG - LOADER]
Component
Steering
Fluid
MOBIL MOBILTRANS AST 30 (--- GAL)

Sample Rating Trend



ISO

DIAGNOSIS

Recommendation
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is a high amount of particulates present in the fluid.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0662473**	WC0606294	WC0512352
Sample Date		Client Info		**08 Feb 2022**	30 Jul 2021	22 Oct 2020
Machine Age	hrs	Client Info		**19444**	18509	17139
Oil Age	hrs	Client Info		**935**	1629	459
Oil Changed		Client Info		**Changed**	Changed	Not Changd
Sample Status				**ABNORMAL**	NORMAL	ATTENTION

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>60	**7**	7	7
Chromium	ppm	ASTM D5185m	>12	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>6	**<1**	0	0
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m		**0**	0	<1
Aluminum	ppm	ASTM D5185m	>4	**2**	4	<1
Lead	ppm	ASTM D5185m	>12	**0**	3	<1
Copper	ppm	ASTM D5185m	>30	**4**	4	5
Tin	ppm	ASTM D5185m		**0**	0	0
Antimony	ppm	ASTM D5185m		**<1**	<1	0
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		**44**	38	43
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**	14	11
Calcium	ppm	ASTM D5185m		**3267**	3302	3027
Phosphorus	ppm	ASTM D5185m		**1073**	998	1015
Zinc	ppm	ASTM D5185m		**1162**	1227	1153
Sulfur	ppm	ASTM D5185m		**4316**	5050	4446

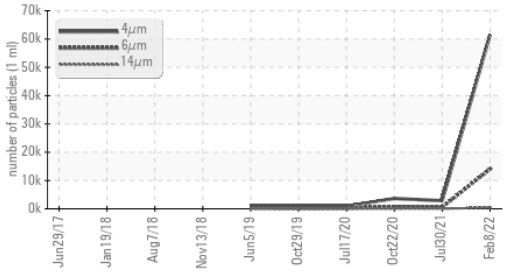
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>10	**9**	10	8
Sodium	ppm	ASTM D5185m		**4**	3	0
Potassium	ppm	ASTM D5185m	>20	**2**	10	2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**61506**	2855	3648
Particles >6µm		ASTM D7647	>640	▲ **14031**	525	▲ 741
Particles >14µm		ASTM D7647	>80	▲ **397**	20	40
Particles >21µm		ASTM D7647	>20	▲ **47**	3	9
Particles >38µm		ASTM D7647	>4	**0**	0	0
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>--/16/13	▲ **23/21/16**	19/16/11	▲ 19/17/12

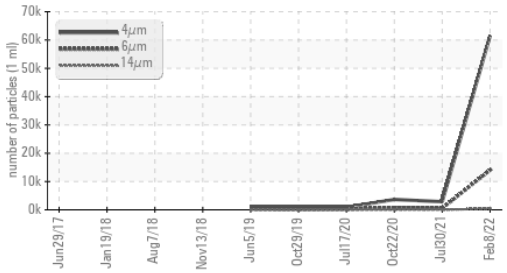
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.07**	0.454	1.644

OIL ANALYSIS REPORT

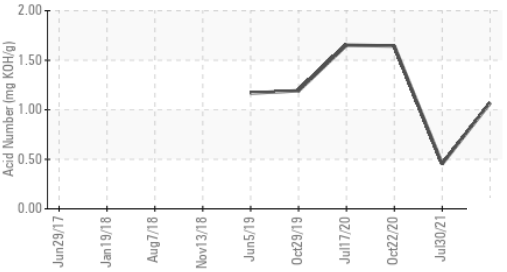
Particle Trend



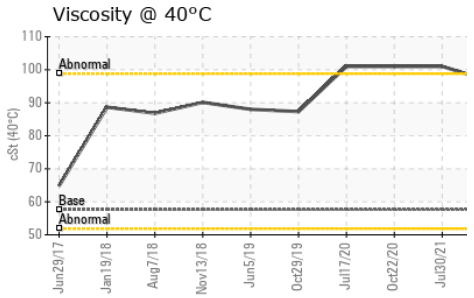
Particle Trend



Acid Number



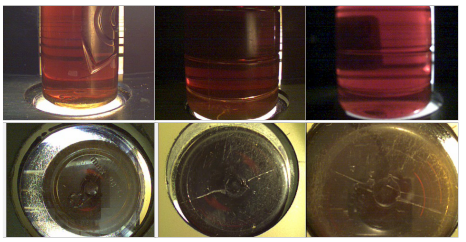
Viscosity @ 40°C



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		**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

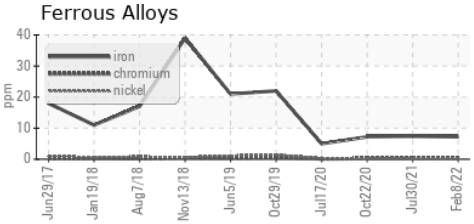
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.6	**96.6**	101	101

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

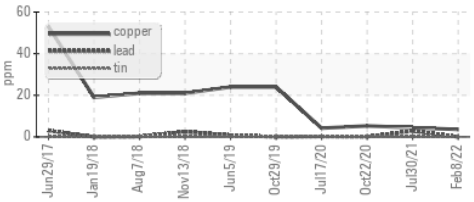


GRAPHS

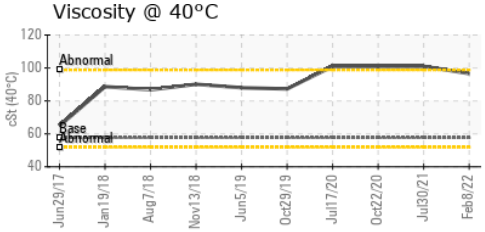
Ferrous Alloys



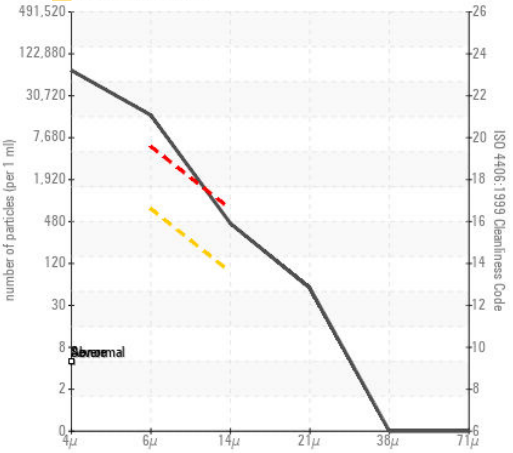
Non-ferrous Metals



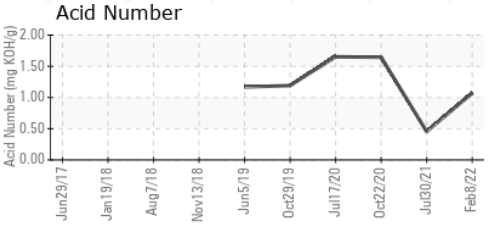
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0662473 **Received** : 11 Feb 2022
Lab Number : 05465909 **Diagnosed** : 14 Feb 2022
Unique Number : 9850122 **Diagnostician** : Don Baldridge
Test Package : CONST (Additional Tests: PrtCount)

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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