

PROBLEM SUMMARY

OKLAHOMA/102/EG - LOADER



600

45.38L [OKLAHOMA^102^EG - LOADER] Component Hydraulic System Fluid MOBIL MOBILTRANS AST 30 (--- GAL)

COMPONENT CONDITION SUMMARY

Area





RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE	ABNORMAL	NORMAL	
Iron	ppm	ASTM D5185m	>20	1 07	9	6	
Particles >6µm		ASTM D7647	>2500	🔺 201474	1 1997	2268	
Particles >14µm		ASTM D7647	>640	<u> </u>	496	128	
Particles >21µm		ASTM D7647	>160	<u> </u>	108	34	
Oil Cleanliness		ISO 4406 (c)	>/18/16	<u> </u>	<u> </u>	21/18/14	

Customer Id: SHEWIC Sample No.: WC0908757 Lab Number: 06139840 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 <u>customerservice@wearcheck.com</u>

DECOM	

Action	Status	Date	Done By
Inspect Wear Source			?
Change Filter			?
Resample			?

Description

We advise that you inspect for the source(s) of wear.

We recommend you service the filters on this component.

We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS



NORMAL

21 Mar 2024 Diag: Wes Davis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.





23 Oct 2023 Diag: Wes Davis Besample at the next service in

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.

18 Sep 2023 Diag: Wes Davis



We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.





OIL ANALYSIS REPORT

Sample Rating Trend WEAR



Machine Id 45.38L [OKLAHOMA/102/EG - LOADER] Component Hydraulic System

Fluid MOBIL MOBILTRANS AST 30 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Area

🔺 Wear

A sharp increase in the iron level is noted. The iron level is severe.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0908757	WC0914507	WC0857268
Sample Date		Client Info		02 Apr 2024	21 Mar 2024	23 Oct 2023
Machine Age	hrs	Client Info		8540	8905	8283
Oil Age	hrs	Client Info		8540	1000	500
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				SEVERE	ABNORMAL	NORMAL
CONTAMINATIO	N	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	1 07	9	6
Chromium	ppm	ASTM D5185m	>10	1	0	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	4	3
Lead	ppm	ASTM D5185m	>10	0	<1	2
Copper	ppm	ASTM D5185m	>75	1	4	3
Tin	ppm	ASTM D5185m	>10	<1	<1	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		114	67	55
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		5	<1	0
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		20	18	18
Calcium	ppm	ASTM D5185m		3493	2901	2639
Phosphorus	ppm	ASTM D5185m		1053	1003	993
Zinc	ppm	ASTM D5185m		1339	1251	1247
Sulfur	ppm	ASTM D5185m		5191	4928	4486
CONTAMINANTS	8	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	13	12	10
Sodium	ppm	ASTM D5185m		3	7	6
Potassium	ppm	ASTM D5185m	>20	1	2	2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		288990	58964	16803
Particles >6µm		ASTM D7647	>2500	🔺 201474	1 1997	2268
Particles >14µm		ASTM D7647	>640	🔺 13115	496	128
Particles >21µm		ASTM D7647	>160	<u> </u>	108	34
Particles >38µm		ASTM D7647	>40	1	1	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/16	4 25/25/21	▲ 23/21/16	21/18/14
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.69	0.80	0.86
1:33:47) Rev: 1	·				Submitted By: S	HAWN SOUTH



OIL ANALYSIS REPORT



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 PROPERTI	ES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.6	49.5	54.0	54.4
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						



* - 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)

Report Id: SHEWIC [WUSCAR] 06139840 (Generated: 04/08/2024 14:33:47) Rev: 1

Submitted By: SHAWN SOUTH

F: x:

T: (316)617-3161