

PROBLEM SUMMARY

Sample Rating Trend







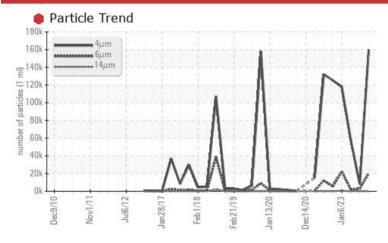
OKLAHOMA/115/EG - LOADER Machine Id 48.83L [OKLAHOMA^115^EG - LOADER]

Component

Hydraulic System

MOBIL MOBILTRANS AST 30 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Check seals and/or filters for points of contaminant entry. 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. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

PROBLEMATIC T	EST RESULTS				
Sample Status			SEVERE	ATTENTION	NORMAL
Particles >6µm	ASTM D7647	>2500	20384	<u>^</u> 2914	2068
Oil Cleanliness	ISO 4406 (c)	>/18/16	24/22/13	20/19/15	23/18/13

Customer Id: SHEWIC Sample No.: WC0848988 Lab Number: 05962187 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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

RECOMMENDED A	ACTIONS			
Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.
Resample			?	Resample in 30-45 days to monitor this situation.
Check Breathers			?	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.
Check Seals			?	Check seals and/or filters for points of contaminant entry.

HISTORICAL DIAGNOSIS

17 Apr 2023 Diag: Wes Davis



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 light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



14 Feb 2023 Diag: Don Baldridge



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



06 Jan 2023 Diag: Jonathan Hester



No corrective action is recommended at this time. 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 high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend

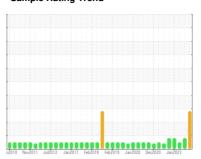




OKLAHOMA/115/EG - LOADER 48.83L [OKLAHOMA^115^EG - LOADER]

Hydraulic System

MOBIL MOBILTRANS AST 30 (--- GAL)





DIAGNOSIS

Recommendation

Check seals and/or filters for points of contaminant entry. 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. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 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.

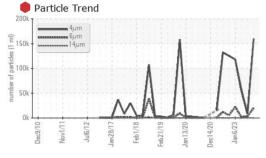
Fluid Condition

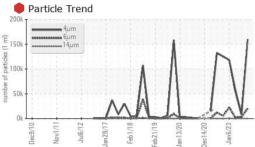
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

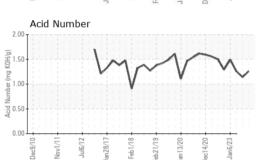
AST 30 (GAL)	c2010 Nov201	1 Jul2012 Jan2017 Feb.	2018 Feb2019 Jan2020 Dec2020	Jan2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0848988	WC0738504	WC0769734
Sample Date		Client Info		20 Sep 2023	17 Apr 2023	14 Feb 2023
Machine Age	hrs	Client Info		19800	10346	10035
Oil Age	hrs	Client Info		942	18858	182
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				SEVERE	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	6	4	5
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	2	2
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	4	2	1
Tin	ppm	ASTM D5185m	>10	<1	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		63	47	24
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		20	21	14
Calcium	ppm	ASTM D5185m		3208	3043	2956
Phosphorus	ppm	ASTM D5185m		1019	1000	951
Zinc	ppm	ASTM D5185m		1267	1252	1155
Sulfur	ppm	ASTM D5185m		4664	5546	5460
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	11	8	9
Sodium	ppm	ASTM D5185m		4	2	1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		159805	8066	57735
Particles >6µm		ASTM D7647	>2500	20384	<u>^</u> 2914	2068
Particles >14µm		ASTM D7647	>640	65	185	45
Particles >21µm		ASTM D7647		9	30	9
Particles >38µm		ASTM D7647	>40	0	2	0
Particles >71μm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/16	24/22/13	<u>\$\text{\Delta}\$ 20/19/15</u>	23/18/13
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.26	1.14	1.26

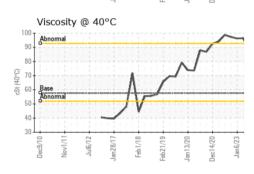


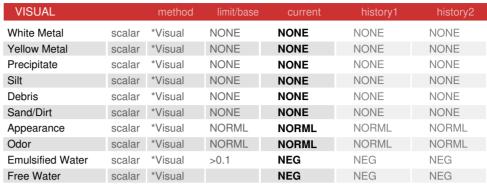
OIL ANALYSIS REPORT









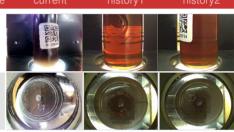


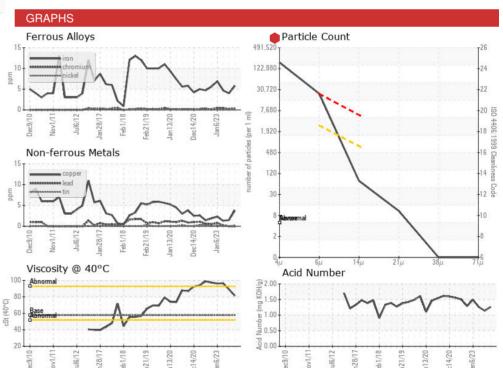
FLUID PROPERI	HES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.6	81.3	89.0	96.4

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Color











Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : CONST

: WC0848988 : 05962187 : 10668738

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 27 Sep 2023 : 28 Sep 2023 : Wes Davis Diagnostician

SHERWOOD CONSTRUCTION CO INC 3219 WEST MAY ST

WICHITA, KS US 67213 Contact: DOUG KING doug.king@sherwood.net

T: (316)617-3161

* - 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] 05962187 (Generated: 10/03/2023 13:04:11) Rev: 1

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