

PROBLEM SUMMARY

Sample Rating Trend





COLORADO/443/EG - LOADER 45.52L [COLORADO^443^EG - LOADER]

Front Differential

MOBIL MOBILFLUID 424 (9 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC T	EMATIC TEST RESULTS					
Sample Status				SEVERE	SEVERE	SEVERE
Water	%	ASTM D6304	>.2	1.17	▲ 2.66	2.78
ppm Water	ppm	ASTM D6304	>2000	11700	26600	27800
Emulsified Water	scalar	*Visual	>.2	0.2%	▲ 0.2%	NEG

Customer Id: SHEWIC Sample No.: WC0928640 Lab Number: 06237109 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			?	We recommend that you drain the oil from the component if this has not already been done.
Resample			?	We recommend an early resample to monitor this condition.
Check Water Access			?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

08 Jun 2023 Diag: Don Baldridge

WATER



We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. All component wear rates are normal. Appearance is milky. There is a high concentration of water present in the oil. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.



WATER



09 Jan 2023 Diag: Jonathan Hester

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please note that this is a corrected copy for laboratory data updates. All component wear rates are normal. Appearance is milky. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.



WATER



19 Jul 2022 Diag: Don Baldridge

We advise that you check for the source of water entry. The oil 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 high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.





OIL ANALYSIS REPORT









COLORADO/443/EG - LOADER 45.52L [COLORADO^443^EG - LOADER]

Front Differential

MOBIL MOBILFLUID 4

DIAGNOSIS

▲ Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

Appearance is milky. There is a high concentration of water present in the oil.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

Ample Number Client Info WC0928640 WC0823239 WC07660 Ample Date Client Info 10 Jul 2024 08 Jun 2023 09 Jun 2023 10 Jul 2024 08 Jun 2023 09 Jun 2023 10 Jul 2024 08 Jun 2023 09 Jun 2023 10 Jul 2024 10 Jul	24 (9 GAL)		Jun2021	Oct2021 Feb2022	Jul2022 Jan2023 Jun2023	Jul2024	
ample Date Client Info 10 Jul 2024 08 Jun 2023 09 Jan 202 dachine Age hrs Client Info 4497 3532 2977 pil Changed Lient Info 3143 555 Not Changd Changed Severe Client Info Not Changd Not Changd Changed Severe Sev	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Alachine Age hrs	Sample Number		Client Info		WC0928640	WC0823239	WC0766090
Acchine Age hrs	Sample Date		Client Info		10 Jul 2024	08 Jun 2023	09 Jan 2023
Client Info	Machine Age	hrs	Client Info		4497	3532	2977
wample Status method limit/base current history1 history1 on ppm ASTM D5185m >500 122 130 83 chromium ppm ASTM D5185m >3 <1	Oil Age	hrs	Client Info		3143	555	0
WEAR METALS method limit/base current history1 history1 on ppm ASTM D5185m >500 122 130 83 thromium ppm ASTM D5185m >3 <1	Oil Changed		Client Info		Not Changd	Not Changd	Changed
December December	Sample Status				SEVERE	SEVERE	SEVERE
ASTM D5185m S3	WEAR METALS		method	limit/base	current	history1	history2
	ron	ppm	ASTM D5185m	>500	122	130	83
Internium ppm ASTM D5185m >2	Chromium	ppm	ASTM D5185m	>3	<1	2	1
Interest	Nickel	ppm	ASTM D5185m	>3	0	3	3
ASTM D5185m SASTM D5185m SAST	Fitanium	ppm	ASTM D5185m	>2	0	<1	<1
Part	Silver	ppm	ASTM D5185m	>2	0	<1	0
ASTM D5185m >103	Aluminum	ppm	ASTM D5185m	>30	3	3	1
STM D5185m STM D5185m D	_ead	ppm	ASTM D5185m	>13	0	<1	2
Anadium	Copper	ppm	ASTM D5185m	>103	8	5	3
ADDITIVES method limit/base current history1 history oron ppm ASTM D5185m 323 41 118 oron ppm ASTM D5185m 0 0 0 Oloybdenum ppm ASTM D5185m 0 4 7 Idagnesium ppm ASTM D5185m 2 2 1 Idagnesium ppm ASTM D5185m 7 2772 3531 Idagnesium ppm ASTM D5185m 1380 985 1129 Idagnesium ppm ASTM D5185m 19 1303 1475 Idagnesium ppm ASTM D5185m 19 1303	Γin	ppm	ASTM D5185m	>5	0	2	2
ADDITIVES method limit/base current history1 history oron ppm ASTM D5185m 323 41 118 arium ppm ASTM D5185m 0 0 0 folybdenum ppm ASTM D5185m 0 4 7 danganese ppm ASTM D5185m 2 2 1 dargesium ppm ASTM D5185m 7 2772 3531 dhosphorus ppm ASTM D5185m 1380 985 1129 inc ppm ASTM D5185m 19 1303 1475 ulfur ppm ASTM D5185m 16663 5209 4958 CONTAMINANTS method limit/base current history1 history1 history1 idicon ppm ASTM D5185m >100 4 23 14 odium ppm ASTM D5185m 8 1 4 odium ppm ASTM D5185m 8 <td>Vanadium</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>0</td> <td><1</td> <td>0</td>	Vanadium	ppm	ASTM D5185m		0	<1	0
ASTM D5185m ASTM D5185m D	Cadmium	ppm	ASTM D5185m		0	<1	<1
arium ppm ASTM D5185m 0 0 0 folybdenum ppm ASTM D5185m 0 4 7 langanese ppm ASTM D5185m 2 2 1 langesium ppm ASTM D5185m 632 13 37 ladicium ppm ASTM D5185m 7 2772 3531 hosphorus ppm ASTM D5185m 19 1303 1475 hosphorus ppm ASTM D5185m 16663 5209 4958 CONTAMINANTS method limit/base current history1 history2	ADDITIVES		method	limit/base	current	history1	history2
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langanese	Barium	ppm	ASTM D5185m		0	0	0
Astagenesium ppm ASTM D5185m 632 13 37 Astalcium ppm ASTM D5185m 7 2772 3531 Hosphorus ppm ASTM D5185m 1380 985 1129 inc ppm ASTM D5185m 19 1303 1475 ulfur ppm ASTM D5185m 16663 5209 4958 CONTAMINANTS method limit/base current history1 history1 CONTAMINANTS method limit/base current history1 history1 CONTAMINANTS method limit/base current history1 history1 CONTAMINANTS method limit/base current history1 history2 CONTAMINANTS method limit/base current history1 history2 Juliant ppm ASTM D5185m >20 11 2 1 2 Juliant ppm ASTM D5185m >20 11 2 1	Molybdenum	ppm	ASTM D5185m		0	4	7
ASTM D5185m 7 2772 3531	Manganese	ppm	ASTM D5185m		2		1
hosphorus ppm ASTM D5185m 1380 985 1129 inc ppm ASTM D5185m 19 1303 1475 ulfur ppm ASTM D5185m 16663 5209 4958 CONTAMINANTS method limit/base current history1 history ilicon ppm ASTM D5185m >100 4 23 14 odium ppm ASTM D5185m >100 4 23 14 odium ppm ASTM D5185m >20 11 2 1 Vater % ASTM D6304 >.2 1.17 △ 2.66 △ 2.78 pm Water ppm ASTM D6304 >.20 △ 11700 △ 26600 △ 27800 VISUAL method limit/base current history1 history1 history1 Inition Mone None None None None None VISUAL <th< td=""><td>Magnesium</td><td>ppm</td><td>ASTM D5185m</td><td></td><td>632</td><td>13</td><td>37</td></th<>	Magnesium	ppm	ASTM D5185m		632	13	37
19	Calcium	ppm	ASTM D5185m		7	2772	3531
CONTAMINANTS method limit/base current history1 history ilicon ppm ASTM D5185m >100 4 23 14 odium ppm ASTM D5185m 8 1 4 otassium ppm ASTM D5185m 20 11 2 1 Vater % ASTM D6304 >.2 ▲ 1.17 ▲ 2.66 ▲ 2.78 pm Water ppm ASTM D6304 >.2 ▲ 1.1700 ▲ 26600 ▲ 27800 VISUAL method limit/base current history1 history Vhite Metal scalar *Visual NONE NONE NONE Vhite Metal scalar *Visual NONE NONE NONE Volume NoNE NONE NONE NONE NONE veliow Metal scalar *Visual NONE NONE NONE NONE veliow Metal scalar *Visual NONE NONE NONE	Phosphorus	ppm	ASTM D5185m		1380	985	1129
CONTAMINANTS method limit/base current history1 history1 ilicon ppm ASTM D5185m >100 4 23 14 odium ppm ASTM D5185m >100 8 1 4 otassium ppm ASTM D5185m >20 11 2 1 Vater % ASTM D6304 >.2 ▲ 1.17 ▲ 2.66 ▲ 2.78 pm Water ppm ASTM D6304 >.2 ▲ 1.17 ▲ 2.66 ▲ 2.78 pm Water ppm ASTM D6304 >2000 ▲ 11700 ▲ 26600 ▲ 27800 VISUAL method limit/base current history1 history Vite Metal scalar *Visual NONE NONE NONE NONE NONE NONE recipitate scalar *Visual NONE NONE NONE NONE NONE ilt scalar *Visual NONE NONE NONE NONE NONE NONE NONE scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON	Zinc	ppm	ASTM D5185m		19	1303	1475
Ilicon	Sulfur	ppm	ASTM D5185m		16663	5209	4958
odium ppm ASTM D5185m 8 1 4 otassium ppm ASTM D5185m >20 11 2 1 Vater % ASTM D6304 >.2 ▲ 1.17 ▲ 2.66 ▲ 2.78 pm Water ppm ASTM D6304 >2000 ▲ 11700 ▲ 26600 ▲ 27800 VISUAL method limit/base current history1 history1 White Metal scalar *Visual NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE NONE NONE Vellow Metal scalar *Visual NONE	CONTAMINANTS		method	limit/base	current	history1	history2
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Water	Sodium	ppm	ASTM D5185m		8	1	4
pm Water ppm ASTM D6304 >2000 ▲ 11700 ▲ 26600 ▲ 27800 VISUAL method limit/base current history1 history White Metal scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON	Potassium	ppm	ASTM D5185m	>20	11	2	1
VISUAL method limit/base current history1 history white Metal scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON	Vater	%	ASTM D6304	>.2	1.17	▲ 2.66	2.78
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odor scalar *Visual NORML NORML NORML NORML	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	MILKY	MILKY	MILKY
mulsified Water scalar *Visual >.2 ▲ 0.2% ▲ 0.2% NEG	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>.2	0.2%	▲ 0.2%	NEG

Free Water

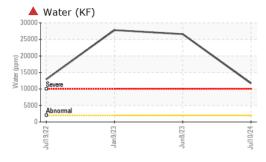
scalar *Visual

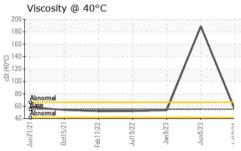
NEG

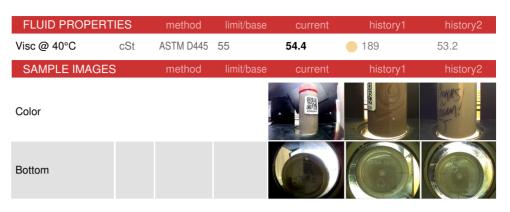
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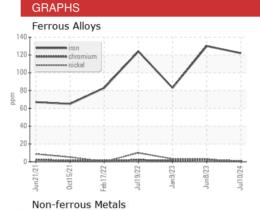


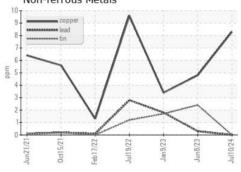
OIL ANALYSIS REPORT

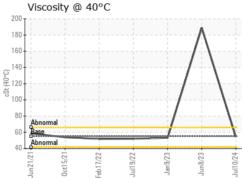
















Laboratory Sample No.

: WC0928640 Lab Number : 06237109 Unique Number : 11125943

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

: 15 Jul 2024 **Tested** : 17 Jul 2024 Diagnosed

: 17 Jul 2024 - Don Baldridge

SHERWOOD CONSTRUCTION CO INC 3219 WEST MAY ST WICHITA, KS US 67213

Contact: DOUG KING doug.king@sherwood.net T: (316)617-3161

Test Package : CONST (Additional Tests: KF) Certificate 12367 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)

Report Id: SHEWIC [WUSCAR] 06237109 (Generated: 07/17/2024 15:50:15) Rev: 1

Submitted By: BRANDEN JAQUIAS

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