

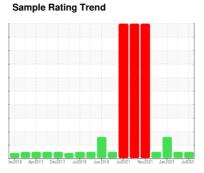




OKLAHOMA/102/EG - EXCAVATOR 20.512L [OKLAHOMA^102^EG - EXCAVATOR]

Rear Left Final Drive

Fluid MOBIL MOBILTRANS HD 50 (--- GAL)





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

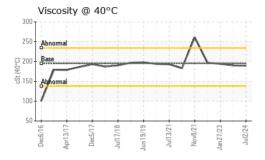
The condition of the oil is acceptable for the time in service.

Sample Date Client Info 02 Jul 2024 27 Oct 2023 27 Jan 202 Machine Age hrs Client Info 9140 8508 7536 Oil Age hrs Client Info 632 972 6840 Oil Changed Client Info Not Changed Changed Changed Sample Status NORMAL NORMAL ABNORMA CONTAMINATION method limit/base current history1 Wistory Water WC Method >0.2 NEG NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >10 -1 <1 1 1 Iron ppm ASTM D5185m >10 -1 <1 1 1 Nickel ppm ASTM D5185m >5 <1 0 0 <1 0 <1 0 <1 0 <1 0 <1	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 9140 8508 7536 Oil Age hrs Client Info 632 972 8840 Oil Age hrs Client Info 632 972 8840 North Anged Changed Changed Changed NoRMAL ABNORMAL A	Sample Number		Client Info		WC0935268	WC0857260	WC0634205
Oil Changed	Sample Date		Client Info		02 Jul 2024	27 Oct 2023	27 Jan 2023
Coli Changed Client Info Not Changed Changed Changed NORMAL NORMAL NORMAL ABNORMA ABNO	Machine Age	hrs	Client Info		9140	8508	7536
Continue	Oil Age	hrs	Client Info		632	972	6840
NORMAL NORMAL ABNORMA ABNORMAL CONTAMINATION method limit/base current history1 history1 history2 water WC Method >0.2 NEG N	-		Client Info		Not Changd	Changed	Changed
Water WC Method >0.2 NEG NEG NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >800 274 141 192 Chromium ppm ASTM D5185m >10 <1 <1 1 Nickel ppm ASTM D5185m >5 <1 0 <1 Silver ppm ASTM D5185m >15 <1 0 <1 Aluminum ppm ASTM D5185m >2 <1 0 <1 Aluminum ppm ASTM D5185m >75 8 5 8 Lead ppm ASTM D5185m >10 <1 0 0 Copper ppm ASTM D5185m >8 <1 0 0 Caddhum ppm ASTM D5185m 0 0 8 7 Barium ppm ASTM D5185m 0 0 0 0						Ü	ABNORMAL
	CONTAMINATION	J	method	limit/base	current	history1	history2
	Water		WC Method	>0.2	NEG	NEG	NEG
Chromium ppm ASTM D5185m >10 <1 <1 1 Nickel ppm ASTM D5185m >5 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>800	274	141	192
Titanium	Chromium	ppm	ASTM D5185m	>10	<1	<1	1
Silver	Nickel	ppm	ASTM D5185m	>5	<1	0	0
Silver	Titanium		ASTM D5185m	>15	<1	0	<1
Aluminum					<1		0
Lead							
Copper ppm ASTM D5185m >75 0 0 <1 Tin ppm ASTM D5185m >8 <1					•		
Tin							
Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 2 4 3 Manganese ppm ASTM D5185m 2 4 3 Manganesium ppm ASTM D5185m 3228 2762 3000 Phosphorus ppm ASTM D5185m 1071 882 1042 Zinc ppm ASTM D5185m 1284 1170 1278 Sulfur ppm ASTM D5185m 2400 56 30 58 Sodium ppm ASTM D5185m 2400 56 30 58 Sodium ppm ASTM	• •						
Cadmium ppm ASTM D5185m <1 0 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0 8 7 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 2 4 3 Manganese ppm ASTM D5185m 31 32 25 Calcium ppm ASTM D5185m 3228 2762 3000 Phosphorus ppm ASTM D5185m 1071 882 1042 Zinc ppm ASTM D5185m 11354 7862 9805 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 3 3 3 3 Sodium ppm ASTM D5185m >400 56 30 58 Sodium ppm ASTM D5185m 3				/0			
ADDITIVES					•		
Boron		рріп					
Barium	ADDITIVES		method	limit/base	current	history1	history2
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Manganese ppm ASTM D5185m 2 <1 1 Magnesium ppm ASTM D5185m 31 32 25 Calcium ppm ASTM D5185m 3228 2762 3000 Phosphorus ppm ASTM D5185m 1071 882 1042 Zinc ppm ASTM D5185m 1284 1170 1278 Sulfur ppm ASTM D5185m 11354 7862 9805 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >400 56 30 58 Sodium ppm ASTM D5185m >400 56 30 58 Sodium ppm ASTM D5185m >20 3 <1 4 VISUAL method limit/base current history1 history1 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar </td <td>Barium</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>0</td> <td>0</td> <td>0</td>	Barium	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 31 32 25 Calcium ppm ASTM D5185m 3228 2762 3000 Phosphorus ppm ASTM D5185m 1071 882 1042 Zinc ppm ASTM D5185m 1284 1170 1278 Sulfur ppm ASTM D5185m 11354 7862 9805 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >400 56 30 58 Sodium ppm ASTM D5185m >400 56 30 58 Sodium ppm ASTM D5185m >20 3 <1	Molybdenum	ppm	ASTM D5185m		2	4	3
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Phosphorus ppm ASTM D5185m 1071 882 1042 Zinc ppm ASTM D5185m 1284 1170 1278 Sulfur ppm ASTM D5185m 11354 7862 9805 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >400 56 30 58 Sodium ppm ASTM D5185m >400 56 30 58 Sodium ppm ASTM D5185m >400 3 3 3 Potassium ppm ASTM D5185m >20 3 <1	Magnesium	ppm	ASTM D5185m		31	32	25
Zinc ppm ASTM D5185m 1284 1170 1278 Sulfur ppm ASTM D5185m 11354 7862 9805 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >400 56 30 58 Sodium ppm ASTM D5185m 3 3 3 3 Potassium ppm ASTM D5185m >20 3 <1	Calcium	ppm	ASTM D5185m		3228	2762	3000
Zinc ppm ASTM D5185m 1284 1170 1278 Sulfur ppm ASTM D5185m 11354 7862 9805 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >400 56 30 58 Sodium ppm ASTM D5185m 3 3 3 3 Potassium ppm ASTM D5185m >20 3 <1	Phosphorus	ppm	ASTM D5185m		1071	882	1042
Sulfur ppm ASTM D5185m 11354 7862 9805 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >400 56 30 58 Sodium ppm ASTM D5185m >20 3 3 3 Potassium ppm ASTM D5185m >20 3 <1			ASTM D5185m		1284	1170	1278
Silicon ppm ASTM D5185m >400 56 30 58 Sodium ppm ASTM D5185m 3 3 3 3 Potassium ppm ASTM D5185m >20 3 <1 4 VISUAL method limit/base current history1 history1 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 NORML Odor s	Sulfur		ASTM D5185m		11354	7862	9805
Silicon ppm ASTM D5185m >400 56 30 58 Sodium ppm ASTM D5185m 3 3 3 3 Potassium ppm ASTM D5185m >20 3 <1 4 VISUAL method limit/base current history1 history1 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 NORML NORML NORML <td>CONTAMINANTS</td> <td></td> <td>method</td> <td>limit/base</td> <td>current</td> <td>history1</td> <td>history2</td>	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium ppm ASTM D5185m 3 3 3 Potassium ppm ASTM D5185m >20 3 <1	Silicon	mag	ASTM D5185m	>400	56		58
PotassiumppmASTM D5185m>203<14VISUALmethodlimit/basecurrenthistory1history1White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONEMODERNONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG0.2%							
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 MODER 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 >0.2 NEG NEG 0.2%				>20			
Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONEMODERNONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG0.2%	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE MODER NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG 0.2%	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE MODER NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG 0.2%	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silt scalar *Visual NONE MODER 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 NORML Emulsified Water scalar *Visual >0.2 NEG NEG 0.2%	Precipitate	scalar			NONE	NONE	NONE
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG0.2%	<u> </u>						
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG0.2%							
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG0.2%							
Odor scalar *Visual NORML NORML NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG 0.2%							
Emulsified Water scalar *Visual >0.2 NEG NEG 0.2%							
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Submitted By: RUSTY RILEY

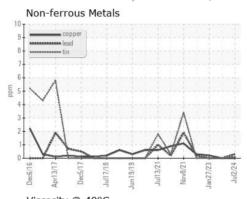


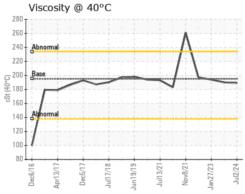
OIL ANALYSIS REPORT



FLUID PROPER	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	195	189	190	194
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS						

Ferrous Alloys 800 700 500 E 400 300 200









Certificate 12367

Laboratory

Sample No. : WC0935268 Lab Number : 06237171 Unique Number : 11126005 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Jul 2024

Tested : 17 Jul 2024 Diagnosed : 17 Jul 2024 - Wes Davis

3219 WEST MAY ST WICHITA, KS US 67213

SHERWOOD CONSTRUCTION CO INC

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

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] 06237171 (Generated: 07/17/2024 09:13:28) Rev: 1

Submitted By: RUSTY RILEY

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