

OIL ANALYSIS REPORT

Sample Rating Trend ISO

Area

OKLAHOMA/3/EG - EXCAVATOR 20.69L [OKLAHOMA^3^EG - EXCAVATOR] Hydraulic System

MOBIL MOBILTRANS AST 30 (--- GAL)

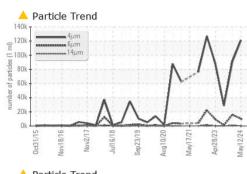
	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		WC0914398	WC0886946	WC0834146
The filter change at the time of sampling has been	Sample Date		Client Info		12 May 2024	31 Jan 2024	05 Aug 2023
noted. We recommend an early resample to	Machine Age	hrs	Client Info		13002	12603	12061
nonitor this condition.	Oil Age	hrs	Client Info		11082	11082	11082
Vear	Oil Changed		Client Info		Changed	N/A	N/A
Il component wear rates are normal.	Sample Status				ABNORMAL	ABNORMAL	NORMAL
Contamination	CONTAMINATIO	N	method	limit/base	current	history1	history2
here is a moderate amount of silt (particulates < 4 microns in size) present in the oil. The system leanliness is above the acceptable limit for the	Water		WC Method	>0.1	NEG	NEG	NEG
rget ISO 4406 cleanliness code.	WEAR METALS		method	limit/base	current	history1	history2
luid Condition	Iron	ppm	ASTM D5185m	>20	11	13	6
ne AN level is acceptable for this fluid. The oil is	Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Il serviceable provided that the contaminant(s)	Nickel	ppm	ASTM D5185m	>10	0	<1	0
can be reduced to acceptable levels.	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	<1	0
	Aluminum	ppm	ASTM D5185m	>10	2	<1	3
	Lead	ppm	ASTM D5185m	>10	0	<1	<1
	Copper	ppm	ASTM D5185m	>75	2	2	2
	Tin	ppm	ASTM D5185m	>10	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	Cadmium	ppm	ASTM D5185m		0	<1	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		72	97	106
	Barium	ppm	ASTM D5185m		0	5	1
	Molybdenum	ppm	ASTM D5185m		<1	2	1
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		20	20	28
	Calcium	ppm	ASTM D5185m		3207	3266	3195
	Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m		3207 1085		3195 1022
						3266	
	Phosphorus	ppm	ASTM D5185m		1085	3266 1014	1022
	Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base	1085 1307 5347	3266 1014 1290	1022 1263
	Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		1085 1307 5347	3266 1014 1290 4989	1022 1263 4764
	Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method		1085 1307 5347 current	3266 1014 1290 4989 history1	1022 1263 4764 history2
	Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm 3	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	>20	1085 1307 5347 current 9	3266 1014 1290 4989 history1 17	1022 1263 4764 history2 12
	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm S ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	>20	1085 1307 5347 <u>current</u> 9 8 0	3266 1014 1290 4989 history1 17 0	1022 1263 4764 history2 12 3
	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm S ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20	1085 1307 5347 <u>current</u> 9 8 0	3266 1014 1290 4989 history1 17 0 2	1022 1263 4764 history2 12 3 <1
	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm S ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 limit/base	1085 1307 5347 current 9 8 0 0	3266 1014 1290 4989 history1 17 0 2 history1	1022 1263 4764 history2 12 3 <1 kistory2
	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm S ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D7647	>20 >20 limit/base >2500	1085 1307 5347 <u>current</u> 9 8 0 <u>current</u> 121197	3266 1014 1290 4989 history1 17 0 2 2 history1 90628	1022 1263 4764 history2 12 3 <1 kistory2 28704
	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm S ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647	>20 >20 limit/base >2500 >640	1085 1307 5347 <u>current</u> 9 8 0 <u>current</u> 121197 ▲ 10142	3266 1014 1290 4989 history1 17 0 2 2 history1 90628 ▲ 15979	1022 1263 4764 12 3 <1 history2 28704 1230
	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm S ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 limit/base >2500 >640 >160	1085 1307 5347 9 8 0 <u>current</u> 121197 ▲ 10142 182	3266 1014 1290 4989 history1 17 0 2 history1 90628 ▲ 15979 ● 884	1022 1263 4764 12 3 <1 history2 28704 1230 77
	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ppm S ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 limit/base >2500 >640 >160 >40	1085 1307 5347 current 9 8 0 current 121197 ▲ 10142 182 23	3266 1014 1290 4989 history1 17 0 2 2 history1 90628 ▲ 15979 ● 884 128	1022 1263 4764 history2 12 3 <1 history2 28704 1230 77 18
	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm S ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 limit/base >2500 >640 >160 >40 >10	1085 1307 5347 current 9 8 0 current 121197 ▲ 10142 182 23 1	3266 1014 1290 4989 history1 17 0 2 2 history1 90628 ▲ 15979 ● 884 128 1	1022 1263 4764 12 3 <1 history2 28704 1230 77 18 0
	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4μm Particles >4μm Particles >14μm Particles >38μm Particles >71μm	ppm ppm ppm ppm ppm ppm NESS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 limit/base >2500 >640 >160 >40 >10	1085 1307 5347 current 9 8 0 current 121197 ▲ 10142 182 23 1 1 0 0 24/21/15	3266 1014 1290 4989 history1 17 0 2 history1 90628 ▲ 15979 884 128 1 0	1022 1263 4764 12 12 3 <1 * * * * * * * * * * * * * * * * * *
	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness	ppm ppm ppm ppm ppm ppm NESS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 limit/base >2500 >640 >160 >40 >10 >/18/16	1085 1307 5347 current 9 8 0 current 121197 ▲ 10142 182 23 1 1 0 0 24/21/15	3266 1014 1290 4989 17 0 2 history1 90628 ▲ 15979 884 128 1 128 1 0 0 2 4 2 2 2	1022 1263 4764 12 3 <1 history2 28704 1230 77 18 0 0 0 22/17/13

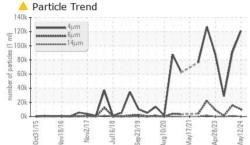
Report Id: SHEWIC [WUSCAR] 06184918 (Generated: 05/22/2024 05:43:21) Rev: 1

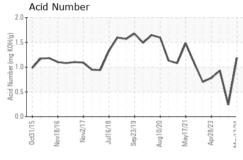
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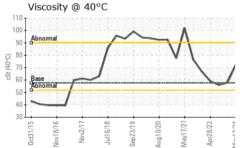


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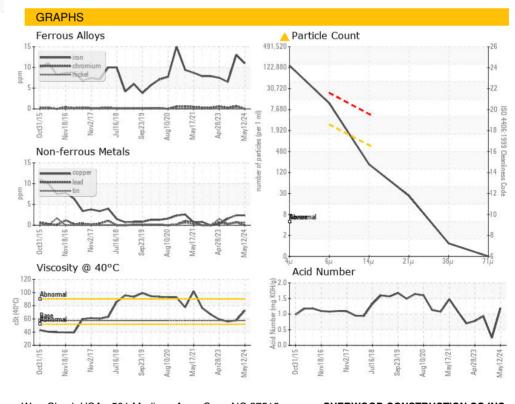






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.6	72.6	57.8	56.0
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						
					100	

Bottom



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 SHERWOOD CONSTRUCTION CO INC Sample No. : WC0914398 Received : 20 May 2024 3219 WEST MAY ST Lab Number : 06184918 Tested : 22 May 2024 WICHITA, KS Unique Number : 11036244 Diagnosed : 22 May 2024 - Wes Davis US 67213 Test Package : CONST Contact: DOUG KING Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. doug.king@sherwood.net * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (316)617-3161

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Submitted By: GARRETT ADAMS

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