

WEAR ABNORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL



OKLAHOMA/102/EG - EXCAVATOR 20.514L [OKLAHOMA^102^EG - EXCAVATOR]

Visc @ 40°C

cSt

ASTM D445 195

Left Final Drive

MOBIL MOBILTRANS HD 50 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

V	V	Ε	A	R	

Gear wear is indicated.

CONTAMINATION

Elemental levels of silicon (Si) and aluminum (AI) indicate aluminasilicate (coarse dirt) ingress.

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0908849	WC0778385	WC0741069
Sample Date		Client Info		10 Apr 2024	16 Jan 2023	18 Nov 2022
Machine Age	hrs	Client Info		1850	7005	6860
Oil Age	hrs	Client Info		1000	4724	4585
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>800	1 345	1246	▲ 965
Chromium	ppm	ASTM D5185m	>10	7	7	5
Nickel	ppm	ASTM D5185m	>5	<1	2	1
Titanium	ppm	ASTM D5185m	>15	7	5	4
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>75	0 105	64	57
Lead	ppm	ASTM D5185m	>10	0	2	1
Copper	ppm	ASTM D5185m	>75	<1	2	2
Tin	ppm	ASTM D5185m	>8	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	nom	ASTM D5185m	>400	A 540	A 348	294
	ppin	AGTIVI DJ TOJITI	2100	_ J+0	040	
Potassium	ppm	ASTM D5185m	>20	33	18	16
Potassium Water	ppm	ASTM D5185m WC Method	>20 >0.2	33 NEG	18 NEG	16 NEG
Potassium Water Silt	ppm ppm scalar	ASTM D5185m WC Method *Visual	>20 >0.2 NONE	33 NEG NONE	18 NEG NONE	16 NEG NONE
Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185m WC Method *Visual	>20 >0.2 NONE NONE	33 NEG NONE NONE	18 NEG NONE NONE	16 NEG NONE NONE
Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE	33 NEG NONE NONE NONE	18 NEG NONE NONE NONE	16 NEG NONE NONE NONE
Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NORE	33 NEG NONE NONE NONE NORML	18 NEG NONE NONE NORE	16 NEG NONE NONE NONE NORML
Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NORME NORML	33 NEG NONE NONE NORE NORML NORML	18 NEG NONE NONE NORML NORML	16 NEG NONE NONE NORML NORML
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	 >20 >0.2 NONE NONE NORML NORML >0.2 	33 NEG NONE NONE NORE NORML NEG	18 NEG NONE NONE NORML NORML NEG	16 NEG NONE NONE NORML NORML NEG
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2	33 NEG NONE NONE NORML NORML NEG	18 NEG NONE NONE NORML NORML NEG 9	16 NEG NONE NONE NORML NORML NEG
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2	33 NEG NONE NONE NORML NORML NEG 11	18 NEG NONE NONE NORML NORML NEG 9 3	16 NEG NONE NONE NORML NORML NEG 8 7
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2	33 NEG NONE NONE NORML NORML NEG 11 4 2	18 NEG NONE NONE NORML NORML NEG 9 3 11	16 NEG NONE NONE NORML NORML NEG 8 7 0
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2	33 NEG NONE NONE NORML NORML NEG 11 4 2 2	18 NEG NONE NONE NORML NORML NEG 9 3 11 3	16 NEG NONE NONE NORML NORML NEG 8 7 0 3
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2	33 NEG NONE NONE NORML NORML NEG 11 4 2 2 13	18 NEG NONE NONE NORML NORML NEG 9 3 11 3 11	16 NEG NONE NONE NORML NORML NEG 8 7 0 3 9
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2	33 NEG NONE NONE NORML NORML NEG 11 4 2 2 13 36	18 18 NEG NONE NONE NORML NEG 9 3 11 3 11 31	16 NEG NONE NONE NORML NORML NEG 8 7 0 3 9 29
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML >0.2	33 NEG NONE NONE NORML NORML NEG 11 4 2 2 13 36 3141	18 18 NEG NONE NONE NORML NEG 9 3 11 3 11 31 2593	16 NEG NONE NONE NORML NORML NEG 8 7 0 3 9 29 3035
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML >0.2	33 NEG NONE NONE NORML NORML NEG 11 4 2 2 13 36 3141 1049	 18 NEG NONE NONE NORML NORML NORML NEG 9 3 11 31 2593 875 	 16 NEG NONE NONE NORML NORML NEG 8 7 0 3 9 29 3035 1012
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML >0.2	33 NEG NONE NONE NORML NORML NEG 11 4 2 2 13 36 3141 1049 1240	 18 NEG NONE NONE NORML NORML NEG 9 3 11 31 2593 875 1098 	16 NEG NONE NONE NORML NORML NEG 8 7 0 3 9 29 3035 1012 1232

Submitted By: BOBBY JONES

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: WearCheck USA - 501 Madison Ave., Cary, NC 27513 SHERWOOD CONSTRUCTION CO INC Received 3219 WEST MAY ST : 22 Apr 2024 Tested WICHITA, KS : 23 Apr 2024 Diagnosed : 24 Apr 2024 - Sean Felton US 67213 Contact: DOUG KING 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 F: x: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: SHEWIC [WUSCAR] 06156326 (Generated: 05/03/2024 12:00:48) Rev: 1

Certificate L2367

Laboratory

Sample No.

Lab Number : 06156326

Unique Number : 10991749

Test Package : CONST

: WC0908849

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