

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ATTENTION

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OKLAHOMA/1053/EG - LOADER 45.39L [OKLAHOMA^1053^EG - LOADER] Component Rear Differential

MOBIL MOBILFLUID 424 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

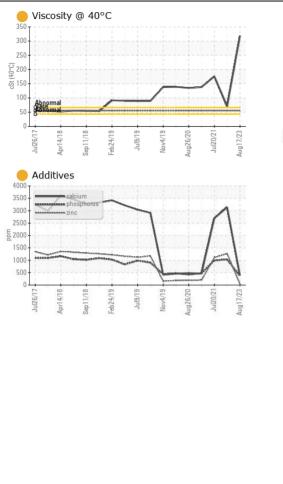
FLUID CONDITION

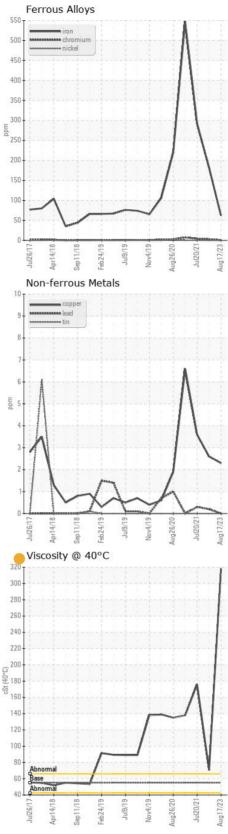
The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0808032	WC0713308	WC0598674
Sample Date		Client Info		17 Aug 2023	29 Jul 2022	20 Jul 2021
Machine Age	hrs	Client Info		12217	11008	9616
Oil Age	hrs	Client Info		1209	4332	500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL
		40TH DE105			400	
Iron	ppm	ASTM D5185m	>500	62	182	292
Chromium	ppm	ASTM D5185m	>3	<1	3	4
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>30	0	2	0
Lead	ppm	ASTM D5185m	>13	0	<1	<1
Copper	ppm	ASTM D5185m	>103	2	3	4
Tin	ppm	ASTM D5185m	>5	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>100	3	13	9
Silicon Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>100 >20	3 0	13 1	9 <1
				-		-
Potassium		ASTM D5185m	>20	0	1	<1
Potassium Water	ppm	ASTM D5185m WC Method	>20 >.2	0 NEG	1 NEG	<1 NEG
Potassium Water Silt	ppm scalar	ASTM D5185m WC Method *Visual	>20 >.2 NONE	0 NEG NONE	1 NEG NONE	<1 NEG NONE
Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185m WC Method *Visual *Visual	>20 >.2 NONE NONE	0 NEG NONE NONE	1 NEG NONE NONE	<1 NEG NONE NONE
Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual	>20 >.2 NONE NONE NONE	0 NEG NONE NONE NONE	1 NEG NONE NONE	<1 NEG NONE NONE
Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >.2 NONE NONE NONE NORML	0 NEG NONE NONE NONE NORML	1 NEG NONE NONE NONE NORML	 <1 NEG NONE NONE NONE 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 >.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG	1 NEG NONE NONE NORML NORML NEG	 <1 NEG NONE NONE NORML NORML
Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>20 >.2 NONE NONE NORML NORML	0 NEG NONE NONE NONE NORML NORML	1 NEG NONE NONE NONE NORML NORML	 <1 NEG NONE NORML NORML NORML NEG 1
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 6 112	1 NEG NONE NONE NORML NORML NEG	 <1 NEG NONE NORML NORML NEG 1 17
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 6 112 0	1 NEG NONE NONE NORML NORML NEG 0 98 0	 <1 NEG NONE NONE NORML NORML NEG 1 17 <1
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 6 112	1 NEG NONE NONE NORML NORML NEG 0 98	 <1 NEG NONE NORML NORML NEG 1 17
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 ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 6 112 0 0	1 NEG NONE NONE NORML NORML NEG 0 98 0 7	 <1 NEG NONE NORML NORML NORML NEG 1 17 <1 19
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 6 112 0 0 2	1 NEG NONE NONE NORML NORML NEG 0 98 0 98 0 7 2	 <1 NEG NONE NORML NORML NORML NEG 1 17 <1 19 2
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum 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 >.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 6 112 0 0 2 2 2 2	1 NEG NONE NONE NORML NORML NEG 0 98 0 98 0 7 2 2 16	 <1 NEG NONE NONE NORML NORML NORML NEG 1 17 <1 19 2 24
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm 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	>20 >.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 6 112 0 0 2 2 2	1 NEG NONE NONE NORML NORML NEG 0 98 0 98 0 7 2 16 3136	 <1 NEG NONE NONE NORML NORML NEG 1 17 <1 19 2 24 2695
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm 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 >.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 6 112 0 0 2 2 2 387 368	1 NEG NONE NONE NORML NORML NEG 0 98 0 98 0 98 0 7 2 2 16 3136 1032	 <1 NEG NONE NONE NORML NORML NEG 1 17 <1 19 2 24 2695 988
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm 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 >.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 6 112 0 0 2 2 2 2 387 368 44	1 NEG NONE NONE NORML NORML NEG 0 98 0 98 0 7 2 16 3136 1032 1269	 <1 NEG NONE NONE NORML NORML NEG 1 17 <1 19 2 24 2695 988 1112

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Submitted By: SHAWN SOUTH





: WearCheck USA - 501 Madison Ave., Cary, NC 27513 SHERWOOD CONSTRUCTION CO INC 3219 WEST MAY ST WICHITA, KS : 28 Aug 2023 - Sean Felton US 67213 Contact: DOUG KING doug.king@sherwood.net T: (316)617-3161 F: x:



Test Package : CONST Certificate L2367 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)

Received

Diagnosed

Tested

: 25 Aug 2023

: 28 Aug 2023

Laboratory

Sample No.

Lab Number : 05935034

Unique Number : 10620305

: WC0808032