

WEAR ABNORMAL CONTAMINATION NORMAL FLUID CONDITION ABNORMAL

CATERPILLAR 938M 76

Hydraulic System

RECOMMENDATION

No corrective action is recommended at this time. 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.

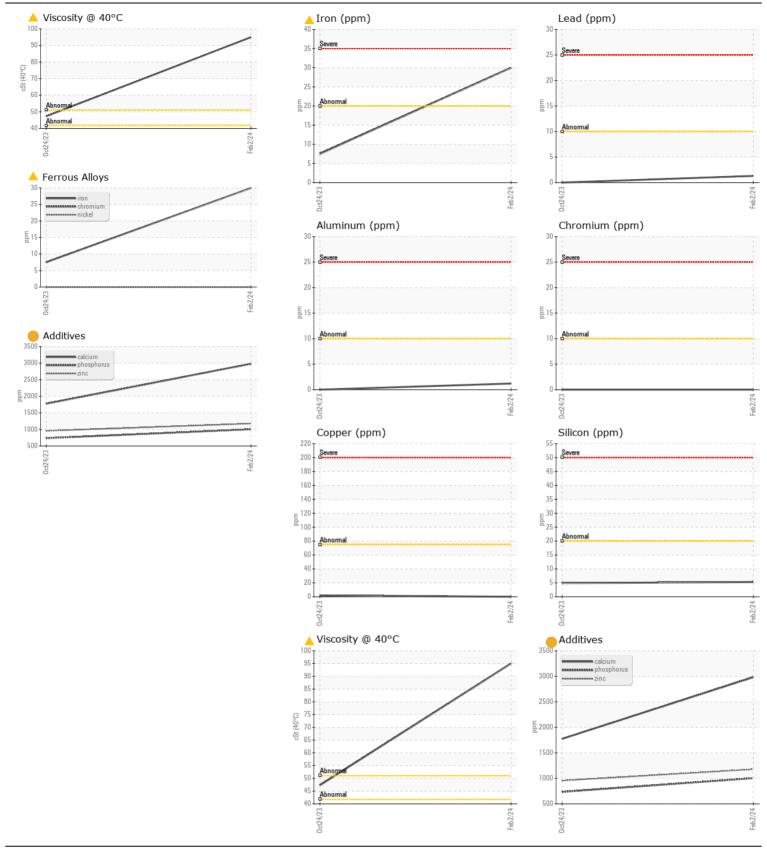
FLUID CONDITION

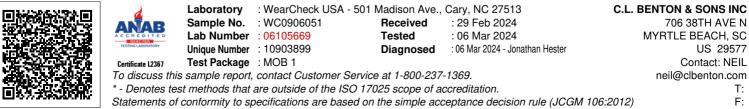
The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0906051	WC0868157	
Sample Date		Client Info		02 Feb 2024	24 Oct 2023	
Machine Age	hrs	Client Info		7676	7184	
Oil Age	hrs	Client Info		242	260	
Filter Age	hrs	Client Info		242	260	
Oil Changed		Client Info		N/A	Not Changd	
Filter Changed		Client Info		N/A	Changed	
Sample Status				ABNORMAL	NORMAL	
Iron	ppm	ASTM D5185m	>20	▲ 30 0	8	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	10	0	0	
Aluminum	ppm	ASTM D5185m	>10	1	0	
Lead	ppm	ASTM D5185m	>10	1	0	
Copper	ppm	ASTM D5185m	>75	0	2	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>20	5	5	
Potassium	ppm	ASTM D5185m	>20	0	0	
Water		WC Method	>0.1	NEG	NEG	
Silt	scalar	*Visual	NONE	NONE	NONE	
Delevie					NONL	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar scalar	*Visual *Visual	NONE NONE			
				NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt Appearance	scalar scalar	*Visual *Visual	NONE	NONE NONE NORML	NONE NONE NORML	
Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NORML NORML	NONE NONE NORML NORML NEG	NONE NORML NORML NEG	
Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar ppm	*Visual *Visual *Visual *Visual ASTM D5185m	NONE NORML NORML	NONE NONE NORML NORML NEG 2	NONE NORML NORML NEG 0	
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m	NONE NORML NORML	NONE NORML NORML NEG 2 2	NONE NORML NORML NEG 0 60	
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	NONE NORML NORML NEG 2 2 2 0	NONE NORML NORML NEG 0 60 0	
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	NONE NORML NORML NEG 2 2 2 0 0	NONE NORML NORML NEG 0 60 0 <1	
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	NONE NORML NORML NEG 2 2 2 0 0 0 <1	NONE NORML NORML NEG 0 60 0 <1 0	
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	NONE NORML NORML NEG 2 2 2 0 0 0 <1	NONE NORML NORML NEG 0 60 0 <1 0 25	
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	NONE NORML NORML NEG 2 2 2 0 0 0 <1 11 2980	NONE NORML NORML NEG 0 60 0 4 0 25 1774	
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	NONE NORML NORML NEG 2 2 2 0 0 0 <1 11 2980 1003	NONE NORML NORML NEG 0 60 0 60 0 25 1774 735	
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	NONE NORML NORML NEG 2 2 2 0 0 0 <1 11 2980 1003 1177	NONE NORML NORML NEG 0 60 0 <1 0 25 1774 735 955	
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	NONE NORML NORML NEG 2 2 2 0 0 0 <1 11 2980 1003	NONE NORML NORML NEG 0 60 0 60 0 25 1774 735	

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Page 2 of 2