

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id CATERPILLAR PML-1 Component Front Differential Fluid

TDTO FLUID SAE 50 (--- GAL)

RECOMMENDATION

We recommend that you drain the oil at the next service. Resample at the next service interval to monitor.

WEAR

Gear wear is indicated.

CONTAMINATION

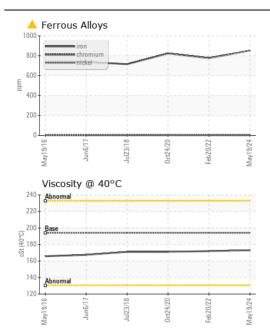
There is no indication of any contamination in the oil.

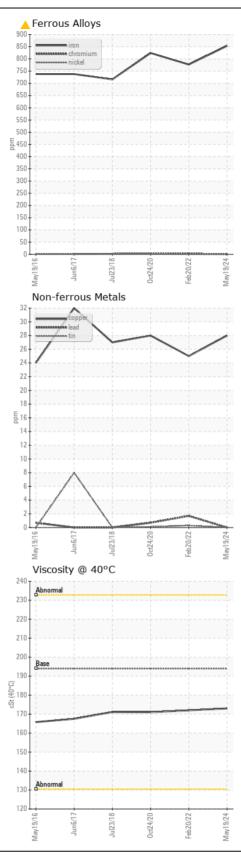
FLUID CONDITION

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

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CL0005457	CL0002927	CL0001646
Sample Date		Client Info		19 May 2024	20 Feb 2022	24 Oct 2020
Machine Age	hrs	Client Info		15685	14810	14340
Oil Age	hrs	Client Info		15685	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
			500			• • • • • • • • • • • • • • • • • • • •
Iron	ppm	ASTM D5185m	>500	A 853	▲ 777 0	▲ 824
Chromium	ppm	ASTM D5185m	>3	1	2	2
Nickel	ppm	ASTM D5185m	>3	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>30	10	11	12
Lead	ppm	ASTM D5185m	>13	0	2	<1
Copper	ppm	ASTM D5185m	>103	28	25	28
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		•150001		NONE	NONE	INCINE
Silicon	ppm	ASTM D5185m	>100	77	60	68
Silicon	ppm	ASTM D5185m	>100	77	60	68
Silicon Potassium	ppm	ASTM D5185m ASTM D5185m	>100 >20	77 0	60 2	68 4
Silicon Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m WC Method	>100 >20 >.2	77 0 NEG	60 2 NEG	68 4 NEG
Silicon Potassium Water Silt	ppm ppm scalar	ASTM D5185m ASTM D5185m WC Method *Visual	>100 >20 >.2 NONE	77 0 NEG NONE	60 2 NEG NONE	68 4 NEG NONE
Silicon Potassium Water Silt Debris	ppm ppm scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>100 >20 >.2 NONE NONE	77 0 NEG NONE NONE	60 2 NEG NONE NONE	68 4 NEG NONE NONE
Silicon Potassium Water Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>100 >20 >.2 NONE NONE NONE	77 0 NEG NONE NONE NONE	60 2 NEG NONE NONE NONE	68 4 NEG NONE NONE NONE
Silicon Potassium Water Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>100 >20 >.2 NONE NONE NONE NORML	77 0 NEG NONE NONE NONE NORML	60 2 NEG NONE NONE NONE NORML	68 4 NEG NONE NONE NONE NORML
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>100 >20 >.2 NONE NONE NONE NORML	77 0 NEG NONE NONE NONE NORML NORML	60 2 NEG NONE NONE NONE NORML NORML	68 4 NEG NONE NONE NONE NORML NORML
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>100 >20 >.2 NONE NONE NONE NORML	77 0 NEG NONE NONE NONE NORML NORML NEG	60 2 NEG NONE NONE NONE NORML NORML NEG	68 4 NEG NONE NONE NORML NORML NEG
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>100 >20 >.2 NONE NONE NORML NORML >.2	77 0 NEG NONE NONE NORML NORML NEG	60 2 NEG NONE NONE NORML NORML NEG	68 4 NEG NONE NONE NORML NORML NEG 6
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm ppm scalar scalar scalar scalar scalar scalar gpm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>100 >20 >.2 NONE NONE NORML NORML >.2	77 0 NEG NONE NONE NORML NORML NEG 8 <1	60 2 NEG NONE NONE NORML NORML NEG 7 4	68 4 NEG NONE NONE NORML NORML NEG 6 5
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>100 >20 >.2 NONE NONE NORML NORML >.2	77 0 NEG NONE NONE NORML NORML NEG 8 <1 <1	60 2 NEG NONE NONE NORML NORML NORML NEG 7 4 0	68 4 NEG NONE NONE NORML NORML NEG 6 5 <1
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >.2 NONE NONE NORML NORML >.2	77 0 NEG NONE NONE NORML NORML NEG 8 <1 <1 <1 3	60 2 NEG NONE NONE NORML NORML NEG 7 4 0 2	68 4 NEG NONE NONE NORML NORML NEG 6 5 <1 <1
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm ppm scalar scalar scalar scalar scalar gpm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >.2 NONE NORME NORML >.2 37 37 5	77 0 NEG NONE NONE NORML NORML NEG 8 <1 <1 <1 3 5	60 2 NEG NONE NONE NORML NORML NEG 7 4 0 <1 4	68 4 NEG NONE NONE NORML NORML NEG 6 5 <1 <1 4
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >.2 NONE NONE NORML >.2 37 37 5 40	77 0 NEG NONE NONE NORML NORML NEG 8 <1 <1 3 5 19	60 2 NEG NONE NONE NORML NORML NEG 7 4 0 <1 4 20	68 4 NEG NONE NONE NORML NORML NEG 6 5 <1 <1 <1 4 18
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;100</li> <li>&gt;20</li> <li>&gt;.2</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>&gt;.2</li> <li>37</li> <li>37</li> <li>5</li> <li>40</li> <li>2650</li> </ul>	77 0 NEG NONE NONE NORML NORML NEG 8 <1 <1 <1 3 5 5 19 3324	60 2 NEG NONE NONE NORML NORML NEG 7 4 0 2 4 0 2 1 4 20 3148	68 4 NEG NONE NONE NORML NORML NEG 6 5 <1 <1 4 18 3088
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;100</li> <li>&gt;20</li> <li>&gt;2</li> <li>NONE</li> <li>NORME</li> <li>NORML</li> <li>&gt;2</li> <li>37</li> <li>37</li> <li>5</li> <li>40</li> <li>2650</li> <li>1050</li> </ul>	77 0 NEG NONE NONE NORML NORML NEG 8 <1 <1 <1 3 5 19 3324 1158	60 2 NEG NONE NONE NORML NORML NEG 7 4 0 2 4 0 4 20 3148 1075	68 4 NEG NONE NONE NORML NORML NEG 6 5 <1 4 4 18 3088 1063

Submitted By: JEFF CHALMERS





: WearCheck USA - 501 Madison Ave., Cary, NC 27513 PEDULLA Laboratory Sample No. Received : 24 May 2024 146 MCLELLAND : CL0005457 Lab Number : 06191335 Tested MOORESVILLE, NC : 28 May 2024 Unique Number : 11048087 Diagnosed : 29 May 2024 - Sean Felton US 28115 Test Package : CONST Contact: LARRY 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. T:

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

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