



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.

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

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	▲ 853	▲ 777	▲ 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

CONTAMINATION

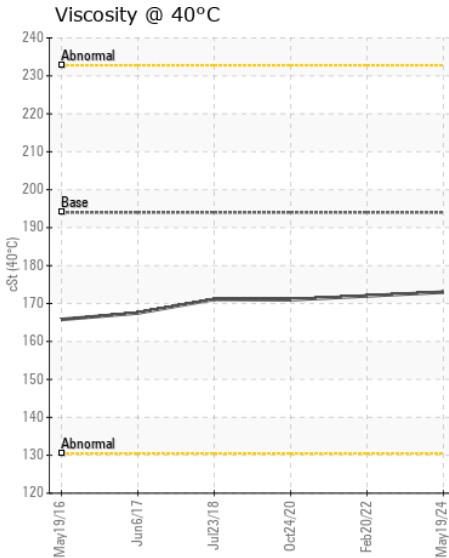
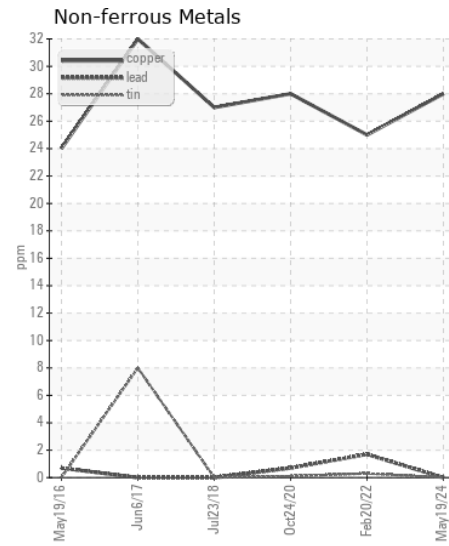
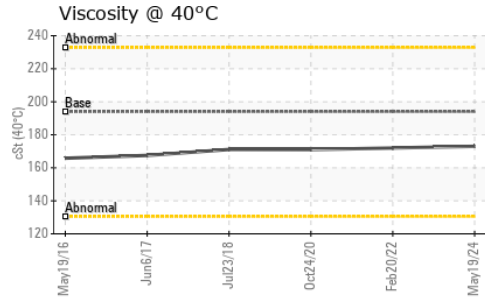
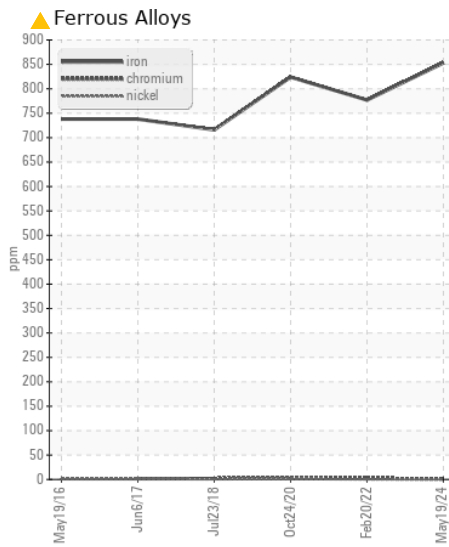
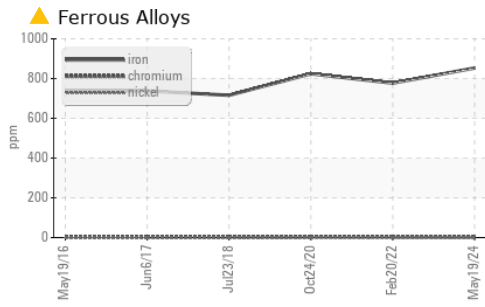
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	77	60	68
Potassium	ppm	ASTM D5185m	>20	0	2	4
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
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	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		8	7	6
Boron	ppm	ASTM D5185m	37	<1	4	5
Barium	ppm	ASTM D5185m	7	<1	0	<1
Molybdenum	ppm	ASTM D5185m	5	3	<1	<1
Manganese	ppm	ASTM D5185m		5	4	4
Magnesium	ppm	ASTM D5185m	40	19	20	18
Calcium	ppm	ASTM D5185m	2650	3324	3148	3088
Phosphorus	ppm	ASTM D5185m	1050	1158	1075	1063
Zinc	ppm	ASTM D5185m	1075	1277	1193	1251
Sulfur	ppm	ASTM D5185m	5750	11222	8642	8348
Visc @ 40°C	cSt	ASTM D445	194	173	172	171



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : CL0005457
Lab Number : 06191335
Unique Number : 11048087
Test Package : CONST
Received : 24 May 2024
Tested : 28 May 2024
Diagnosed : 29 May 2024 - Sean Felton

PEDULLA
 146 MCLELLAND
 MOORESVILLE, NC
 US 28115
 Contact: LARRY

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)

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F: