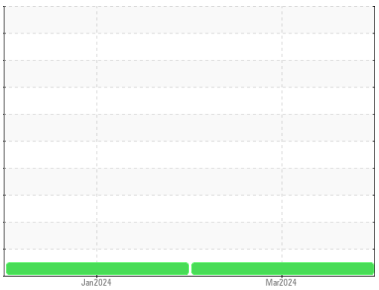
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
Action Newark
Machine Id
CATERPILLAR 5659
Component
Front Differential
Fluid
TDTO FLUID SAE 30 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) TDTO FLUID SAE 30. Please confirm.

Wear
All component wear rates are normal.

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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0889533**	WC0889573	---
Sample Date		Client Info		**22 Mar 2024**	08 Jan 2024	---
Machine Age	hrs	Client Info		**3847**	10359	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**NORMAL**	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>.2	**NEG**	NEG	---

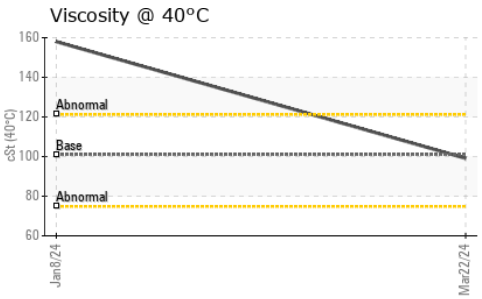
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	**12**	41	---
Chromium	ppm	ASTM D5185m	>3	**0**	<1	---
Nickel	ppm	ASTM D5185m	>3	**<1**	0	---
Titanium	ppm	ASTM D5185m	>2	**0**	0	---
Silver	ppm	ASTM D5185m	>2	**0**	0	---
Aluminum	ppm	ASTM D5185m	>30	**2**	2	---
Lead	ppm	ASTM D5185m	>13	**0**	0	---
Copper	ppm	ASTM D5185m	>103	**2**	4	---
Tin	ppm	ASTM D5185m	>5	**<1**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	37	**8**	10	---
Barium	ppm	ASTM D5185m	7	**0**	3	---
Molybdenum	ppm	ASTM D5185m	5	**8**	2	---
Manganese	ppm	ASTM D5185m		**<1**	0	---
Magnesium	ppm	ASTM D5185m	40	**34**	25	---
Calcium	ppm	ASTM D5185m	2650	**2990**	2936	---
Phosphorus	ppm	ASTM D5185m	1050	**1023**	1008	---
Zinc	ppm	ASTM D5185m	1075	**1224**	1291	---
Sulfur	ppm	ASTM D5185m	5750	**7724**	10038	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	**6**	4	---
Sodium	ppm	ASTM D5185m		**2**	0	---
Potassium	ppm	ASTM D5185m	>20	**<1**	5	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>.2	**NEG**	NEG	---
Free Water	scalar	*Visual		**NEG**	NEG	---

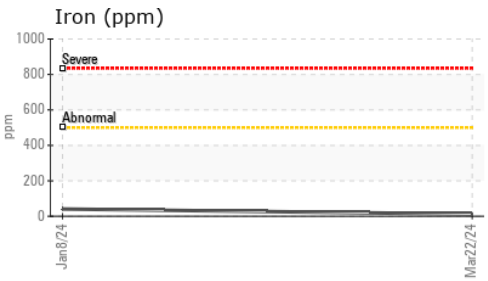
OIL ANALYSIS REPORT

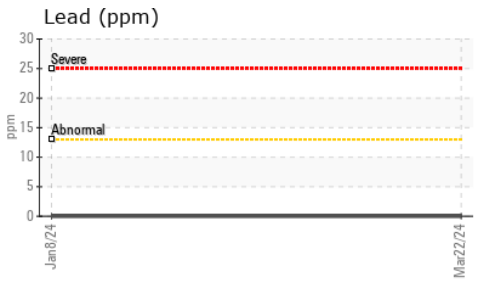


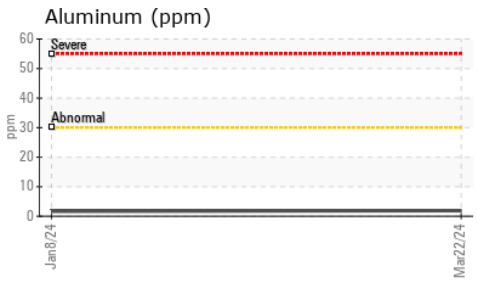
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	101	**99.1**	158	---

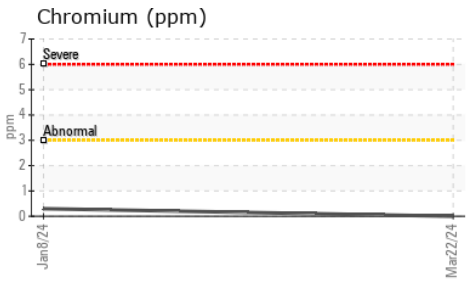
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

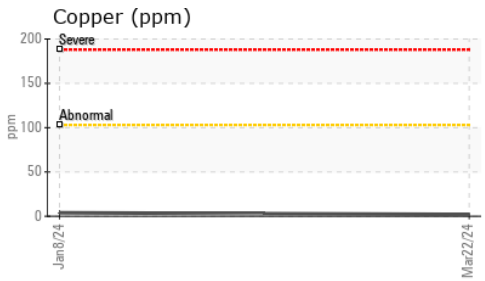
GRAPHS

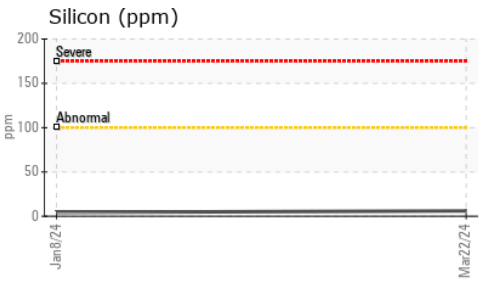


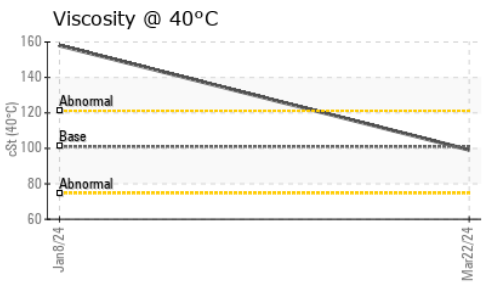


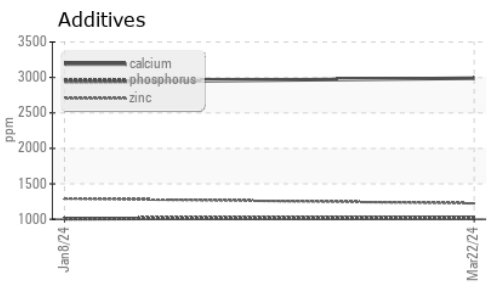












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0889533
Lab Number : 06132500
Unique Number : 10951965
Test Package : MOB 1

Received : 28 Mar 2024
Tested : 01 Apr 2024
Diagnosed : 01 Apr 2024 - Wes Davis

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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