

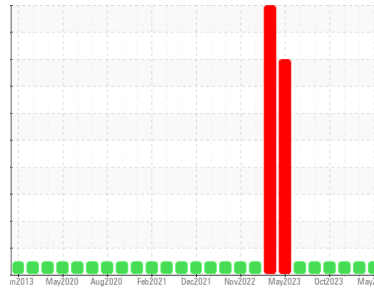


OIL ANALYSIS REPORT



Machine Id
CATERPILLAR D10T 15105048 (S/N CCAT0D10THRJG01478)
 Component
Right Final Drive
 Fluid
CAT DIESEL ENGINE OIL SAE 30 (--- GAL)

Sample Rating Trend



NORMAL

DIAGNOSIS

Recommendation
 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
 Confirm oil type. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		RP0036871	RP0036206	RP0036196
Sample Date	Client Info		07 May 2024	19 Dec 2023	08 Nov 2023
Machine Age	hrs	Client Info	70999	70375	70115
Oil Age	hrs	Client Info	565	1713	1453
Oil Changed	Client Info		Changed	Not Changd	Not Changd
Sample Status			NORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	213	35	32
Chromium	ppm	ASTM D5185m >10	4	<1	<1
Nickel	ppm	ASTM D5185m >5	<1	0	0
Titanium	ppm	ASTM D5185m >15	1	<1	<1
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >75	9	<1	1
Lead	ppm	ASTM D5185m >10	<1	0	0
Copper	ppm	ASTM D5185m >75	2	<1	0
Tin	ppm	ASTM D5185m >8	<1	0	<1
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<1	<1	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	3	3	2
Manganese	ppm	ASTM D5185m	3	<1	1
Magnesium	ppm	ASTM D5185m	21	18	20
Calcium	ppm	ASTM D5185m	3014	3262	3361
Phosphorus	ppm	ASTM D5185m 1100	1123	858	926
Zinc	ppm	ASTM D5185m 1200	1274	1079	1118

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	17	15	16
Sodium	ppm	ASTM D5185m	16	3	2
Potassium	ppm	ASTM D5185m >20	3	0	<1
Water	%	ASTM D6304 >0.2	0.057	0.033	0.056
ppm Water	ppm	ASTM D6304 >2000	573	332	569

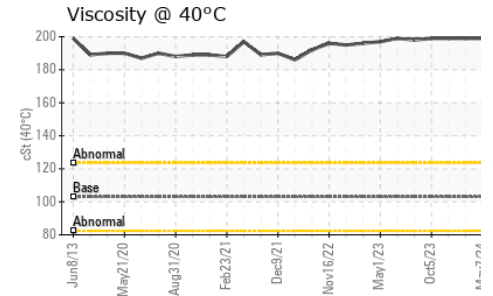
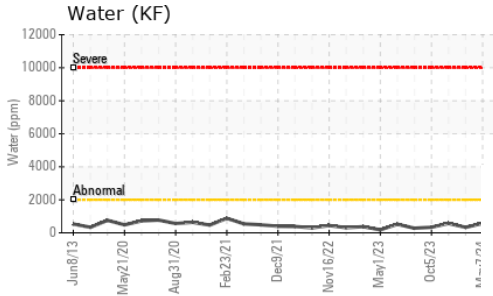
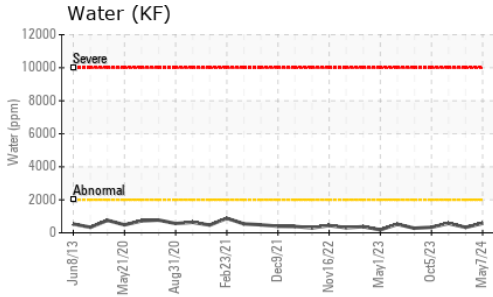
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.57	0.91	0.86

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
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 >0.2	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

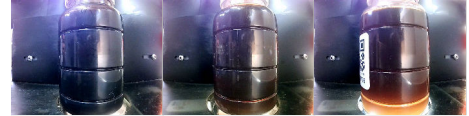
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	103	199	199	199

SAMPLE IMAGES		method	limit/base	current	history1	history2
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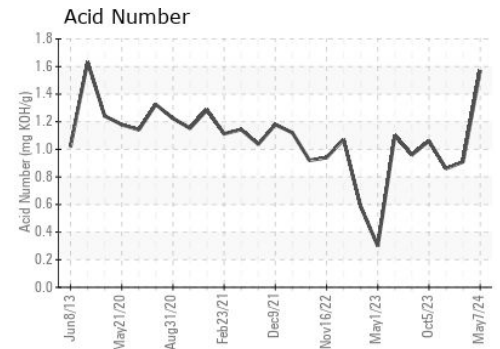
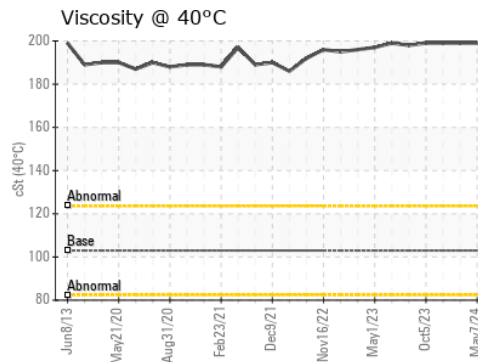
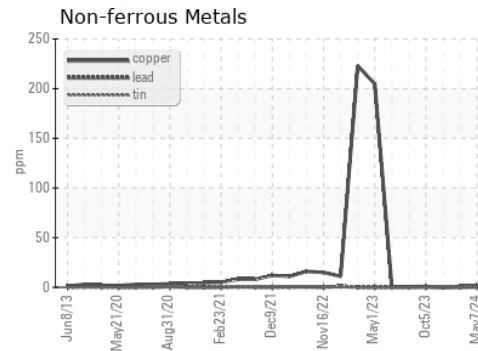
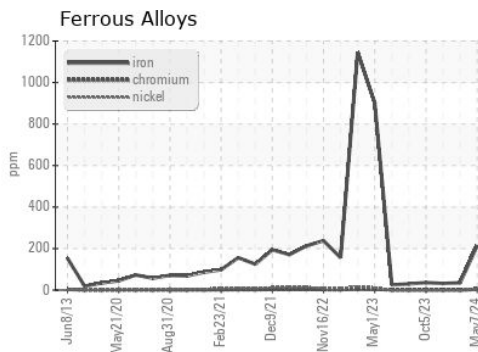
Color



Bottom



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0036871
Lab Number : **06178854**
Unique Number : 11030180
Test Package : IND 2
Received : 14 May 2024
Tested : 15 May 2024
Diagnosed : 17 May 2024 - Don Baldrige

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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)