



OIL ANALYSIS REPORT

Sample Rating Trend

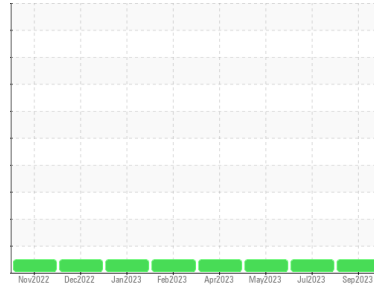
NORMAL



Machine Id
CATERPILLAR D6 10033 (S/N KEW01101)

Component
Transmission (Manual)

Fluid
TDTO FLUID SAE 30 (--- GAL)



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 fluid.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0831356	WC0816195	WC0816182
Sample Date	Client Info		21 Sep 2023	13 Jul 2023	29 May 2023
Machine Age	hrs	Client Info	4241	3772	3278
Oil Age	hrs	Client Info	951	494	1156
Oil Changed	Client Info		Changed	Not Changd	Changed
Sample Status			NORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	6	5	6
Chromium	ppm	ASTM D5185m >5	0	0	0
Nickel	ppm	ASTM D5185m >5	0	0	<1
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m >7	0	0	0
Aluminum	ppm	ASTM D5185m >25	2	1	<1
Lead	ppm	ASTM D5185m >45	<1	<1	<1
Copper	ppm	ASTM D5185m >225	3	2	3
Tin	ppm	ASTM D5185m >10	0	0	0
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 37	<1	8	3
Barium	ppm	ASTM D5185m 7	0	0	0
Molybdenum	ppm	ASTM D5185m 5	4	4	2
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m 40	55	58	29
Calcium	ppm	ASTM D5185m 2650	3170	3191	3306
Phosphorus	ppm	ASTM D5185m 1050	940	899	987
Zinc	ppm	ASTM D5185m 1075	1142	1052	1197
Sulfur	ppm	ASTM D5185m 5750	4096	4327	5391

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >125	7	6	6
Sodium	ppm	ASTM D5185m	0	2	0
Potassium	ppm	ASTM D5185m >20	1	0	1

VISUAL

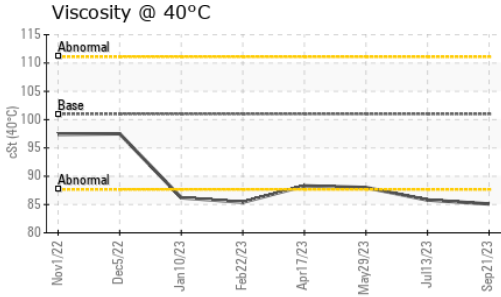
	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	NONE	NONE	NONE
Debris	scalar	*Visual NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	NONE
Appearance	scalar	*Visual NORML	NORML	NORML	NORML
Odor	scalar	*Visual NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual >0.1	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 101	85.1	85.8	88.0

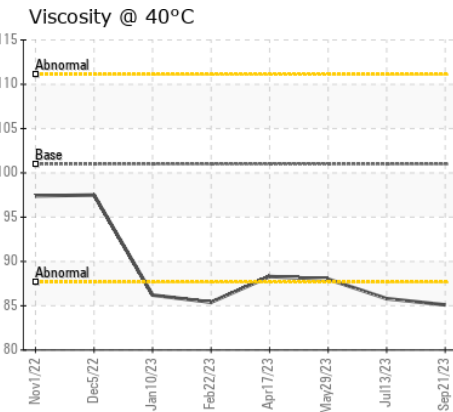
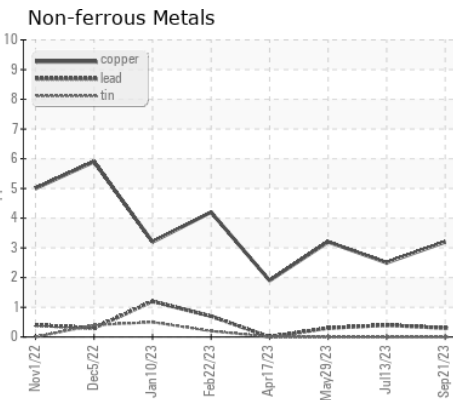
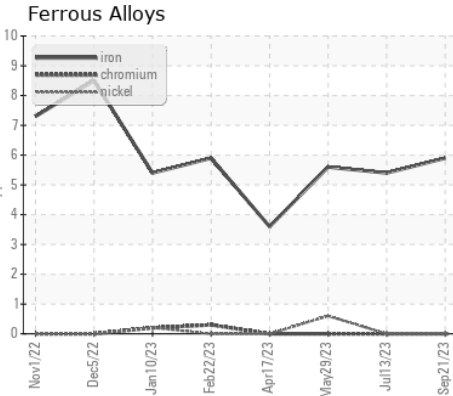


OIL ANALYSIS REPORT



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. : WC0831356
Lab Number : 05965808
Unique Number : 10672359
Test Package : CONST

Received : 29 Sep 2023
Diagnosed : 03 Oct 2023
Diagnostician : Don Baldridge

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 US 28563
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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)