

Machine Id CATERPILLAR CP-563C F Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W		10013	30				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		CL0005591	CL0005405	CL0005016
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		26 Jun 2024	24 Apr 2024	13 Dec 2023
	Machine Age	hrs	Client Info		11245	11235	11175
	Oil Age	hrs	Client Info		10	60	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	2	4	9
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	0	<1
	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m	>2	1	0	0
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m	>25	4	3	3
	Lead	ppm	ASTM D5185m	>40	<1	0	1
	Copper	ppm	ASTM D5185m	>330	1	4	1
	Tin	ppm	ASTM D5185m	>15	<1	<1	1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	3	3
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	0	1
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0	0.1	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.2	8.4	10.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.6	17.8	19.6
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	3	2	3
	Boron	ppm	ASTM D5185m	250	81	85	64
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	0	<1	0
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m	100	91	88	93
	Manganese	ppm	ASTM D5185m		<1	1	0
	Magnesium	ppm	ASTM D5185m	450	19	18	23
	Calcium	ppm	ASTM D5185m		2275	2354	2255
	Phoophorup		ACTM DE10Em	4450	1050	100/	110/

Phosphorus

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m 1150

ppm ASTM D5185m 4250

Abs/.1mm \*ASTM D7414 >25

ppm

Base Number (BN) mg KOH/g ASTM D2896 8.5

ASTM D5185m 1350

ASTM D445 14.4

1219

13.7

7.2

13.4

4317

1084 1134

1300

17.1

6.9

13.0

3887

1050

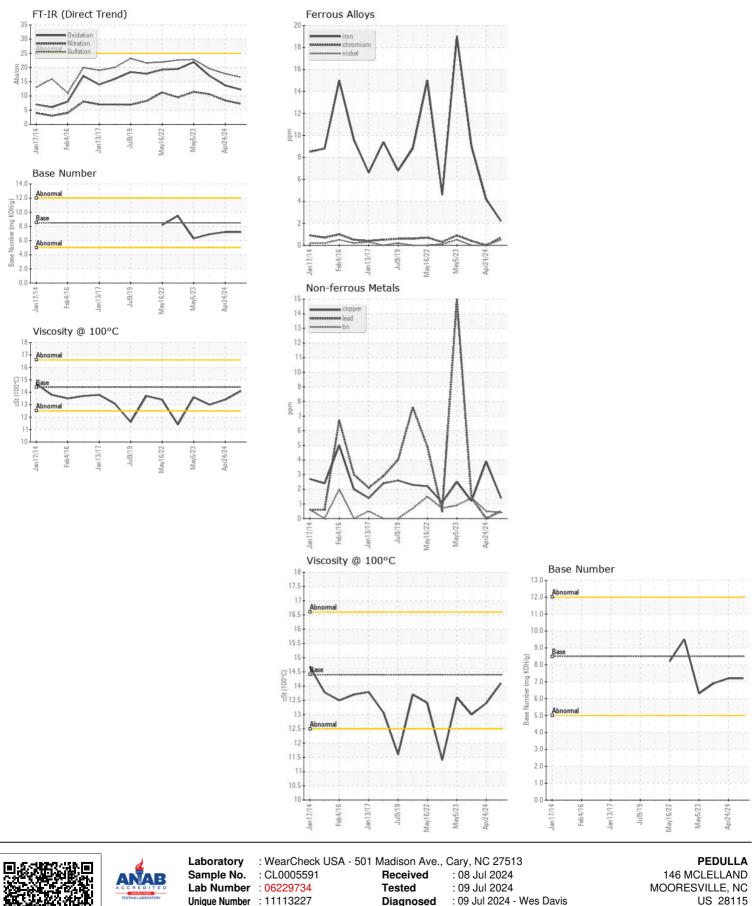
1263

3902

12.2

7.2

14.1



Certificate 12367 Test Package : CONST (Additional Tests: TBN )

- 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)

Contact: LARRY

Submitted By: JEFF CHALMERS Page 2 of 2