

	Machine Id <b>CATERPILLAR 420E 4006</b> Component <b>Diesel Engine</b> Fluid <b>DIESEL ENGINE OIL SAE 15W</b>		026	3)				
RECOMMEND	ATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
		Sample Number		Client Info		CL0005555	,	CL0004437
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		11 Jun 2024	17 Feb 2024	29 Jun 2023
		Machine Age	hrs	Client Info		6225	6055	5810
		Oil Age	hrs	Client Info		170	245	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		7	9	11
All component wear rates are normal.		Chromium	ppm	ASTM D5185m		0	<1	<1
		Nickel	ppm	ASTM D5185m		0	0	0
		Titanium	ppm	ASTM D5185m		0	<1	0
		Silver	ppm	ASTM D5185m		0	0	0
		Aluminum	ppm	ASTM D5185m		3	2	3
		Lead	ppm	ASTM D5185m		0	0	0
		Copper	ppm	ASTM D5185m		1	2	2
		Tin	ppm	ASTM D5185m ASTM D5185m	>15	0	<1	0
		Vanadium White Metal	ppm scalar	*Visual	NONE	<1 NONE	<1 NONE	NONE
		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
			304141	Visual	NONE		NONE	NONL
CONTAMINATION		Silicon	ppm	ASTM D5185m	>25	3	4	4
		Potassium	ppm	ASTM D5185m	>20	0	0	2
I nere is no indication	of any contamination in the oil.	Fuel		WC Method	>5	<1.0	1.8	<1.0
		Water		WC Method	>0.2	NEG	NEG	NEG
		Glycol		WC Method		NEG	NEG	NEG
		Soot %	%	*ASTM D7844	>3	0.5	0.5	0.5
		Nitration	Abs/cm	*ASTM D7624	>20	9.9	8.8	10.7
		Sulfation	Abs/.1mm	*ASTM D7415		18.3	18.0	18.9
		Silt	scalar	*Visual	NONE	NONE	NONE	NONE
		Debris	scalar		NONE	NONE	NONE	NONE
		Sand/Dirt		*Visual	NONE	NONE	NONE	NONE
		Appearance Odor	scalar	*Visual	NORML	NORML	NORML NORML	NORML
			scalar	*Visual	NORML		-	
		Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION		Sodium	ppm	ASTM D5185m		1	2	2
The BN result indicates that there is suitable alkalinity remaining in the		Boron	ppm	ASTM D5185m		63	56	72
		Barium	ppm	ASTM D5185m		0	0	0
oil The condition of th	he oil is suitable for further service			ASTM D5185m	100	00	01	0 =
oil. The condition of th	he oil is suitable for further service.	Molybdenum	ppm		100	89	81	87
oil. The condition of th	he oil is suitable for further service.	Manganese	ppm	ASTM D5185m		<1	<1	<1
oil. The condition of th	he oil is suitable for further service.	Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m	450	<1 16	<1 17	<1 24
oil. The condition of th	he oil is suitable for further service.	Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	450 3000	<1 16 2413	<1 17 1937	<1 24 2225
oil. The condition of th	he oil is suitable for further service.	Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m	450 3000 1150	<1 16	<1 17	<1 24

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m 4250

Abs/.1mm \*ASTM D7414 >25

ASTM D445 14.4

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

3435

12.3

6.4

12.2

4805

13.8

7.4

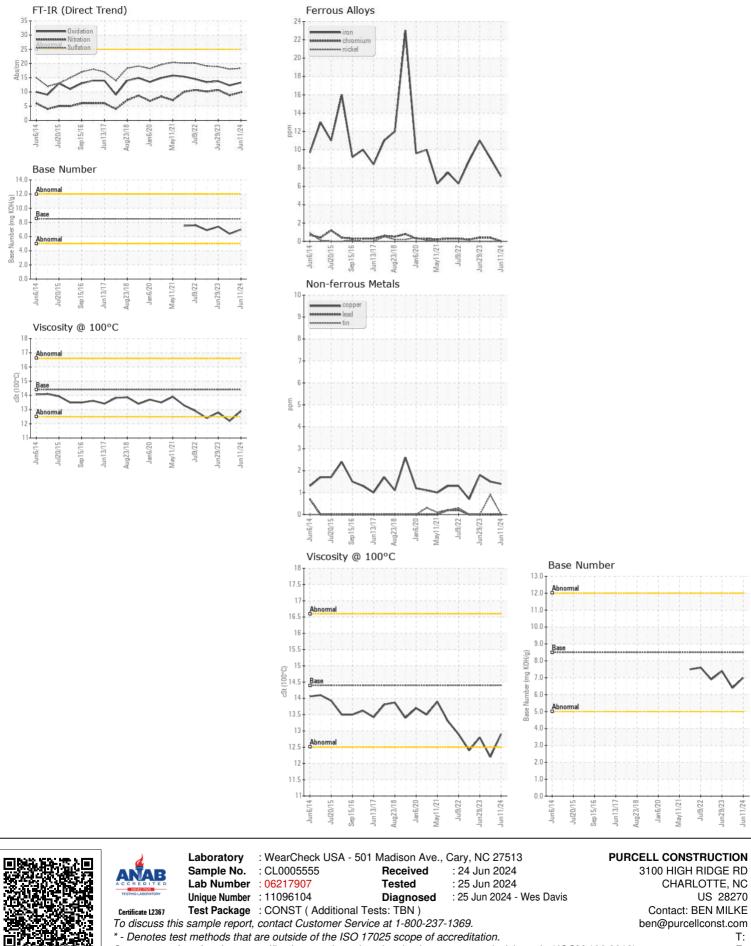
12.8

4764

13.3

7.0

12.9



\* - 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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