

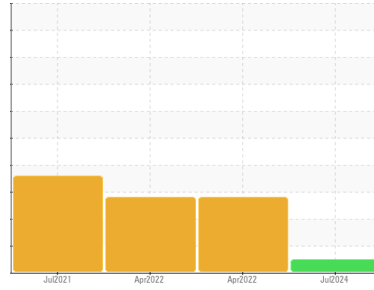


OIL ANALYSIS REPORT



Area
PORTABLE
 Machine Id
CATERPILLAR AP-G-70110 CAT 800KW Generator
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 5W40 (26 GAL)

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. (Customer Sample Comment: Generator was ran for 1 hr ZZZZ inspection on the Buss loaded)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0819706	WC0469443	WC0552824
Sample Date	Client Info		07 Jul 2024	22 Apr 2022	10 Apr 2022
Machine Age	hrs	Client Info	491	0	0
Oil Age	hrs	Client Info	12	0	476
Oil Changed	Client Info		Not Chngd	N/A	N/A
Sample Status			NORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	3	35	31
Chromium	ppm	ASTM D5185m >20	0	<1	<1
Nickel	ppm	ASTM D5185m >2	0	0	0
Titanium	ppm	ASTM D5185m >2	79	<1	0
Silver	ppm	ASTM D5185m >2	0	<1	1
Aluminum	ppm	ASTM D5185m >25	1	2	2
Lead	ppm	ASTM D5185m >40	0	14	14
Copper	ppm	ASTM D5185m >330	14	▲ 582	▲ 522
Tin	ppm	ASTM D5185m >15	<1	3	3
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	129	21	21
Barium	ppm	ASTM D5185m 10	0	0	0
Molybdenum	ppm	ASTM D5185m 100	<1	32	30
Manganese	ppm	ASTM D5185m	0	3	3
Magnesium	ppm	ASTM D5185m 450	629	551	544
Calcium	ppm	ASTM D5185m 3000	1185	1075	977
Phosphorus	ppm	ASTM D5185m 1150	932	692	673
Zinc	ppm	ASTM D5185m 1350	1096	832	648
Sulfur	ppm	ASTM D5185m 4250	4026	1879	1777

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	13	▲ 48	▲ 43
Sodium	ppm	ASTM D5185m >44	2	40	37
Potassium	ppm	ASTM D5185m >20	3	2	0
Fuel	%	ASTM D3524 >5	<1.0	<1.0	1.7

INFRA-RED

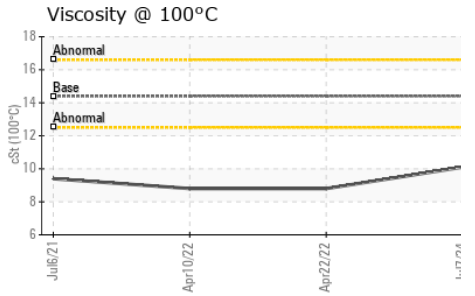
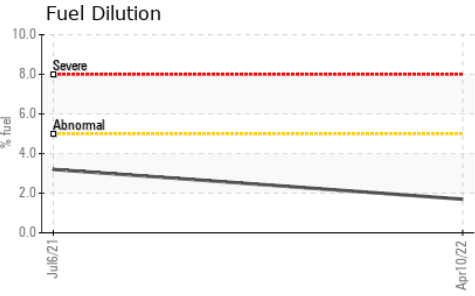
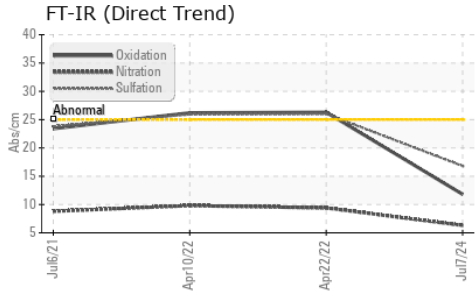
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.1	0.2	0.2
Nitration	Abs/cm	*ASTM D7624 >20	6.3	9.4	9.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	16.8	26.0	25.9

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	11.8	26.3	26.2
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	9.48	8.67	5.90



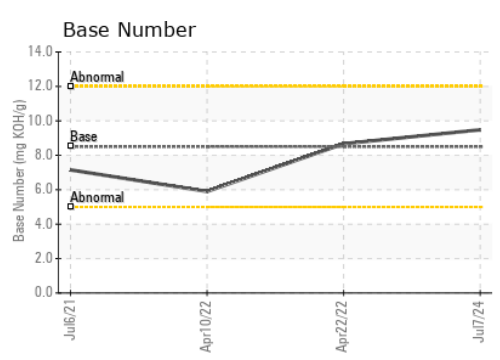
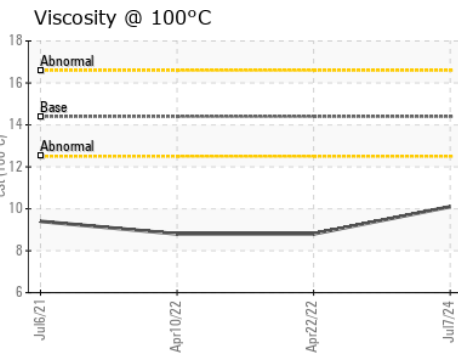
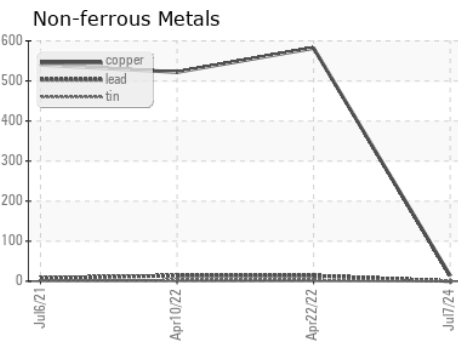
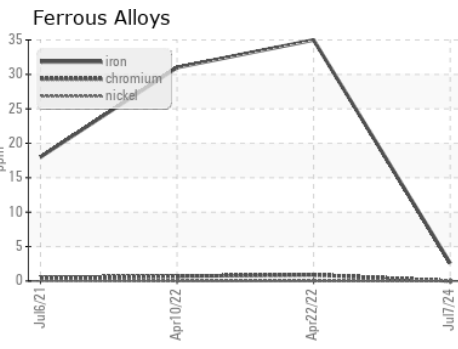
OIL ANALYSIS REPORT



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	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	10.1	8.8

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0819706 **Received** : 12 Jul 2024
Lab Number : 06235141 **Tested** : 15 Jul 2024
Unique Number : 11123975 **Diagnosed** : 15 Jul 2024 - Sean Felton
Test Package : IND 2 (Additional Tests: FuelDilution, PrtCount)

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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)