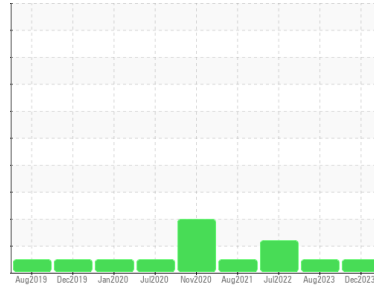




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

1848

Component

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 5W30 (--- QTS)

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

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	WC0876673	WC0836274	WC0686086	
Sample Date	Client Info	26 Dec 2023	31 Aug 2023	23 Jul 2022	
Machine Age	mls	Client Info	0	518949	392671
Oil Age	mls	Client Info	50000	50000	100000
Oil Changed	Client Info	Changed	Changed	Changed	
Sample Status		NORMAL	NORMAL	ABNORMAL	

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	<1.0
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	25	77	103
Chromium	ppm ASTM D5185m >20	2	6	7
Nickel	ppm ASTM D5185m >4	<1	0	0
Titanium	ppm ASTM D5185m	<1	0	<1
Silver	ppm ASTM D5185m >3	0	0	<1
Aluminum	ppm ASTM D5185m >20	3	11	17
Lead	ppm ASTM D5185m >40	4	12	24
Copper	ppm ASTM D5185m >330	1	2	3
Tin	ppm ASTM D5185m >15	<1	1	2
Antimony	ppm ASTM D5185m	---	---	---
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 250	18	15	13
Barium	ppm ASTM D5185m 10	0	0	0
Molybdenum	ppm ASTM D5185m 100	73	67	68
Manganese	ppm ASTM D5185m	<1	1	2
Magnesium	ppm ASTM D5185m 450	1275	1179	1052
Calcium	ppm ASTM D5185m 3000	968	1000	906
Phosphorus	ppm ASTM D5185m 1150	1219	1126	1001
Zinc	ppm ASTM D5185m 1350	1452	1418	1255
Sulfur	ppm ASTM D5185m 4250	3800	3625	2819

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	7	11	11
Sodium	ppm ASTM D5185m	4	6	6
Potassium	ppm ASTM D5185m >20	4	11	20

INFRA-RED

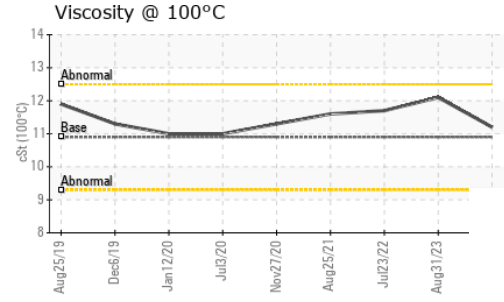
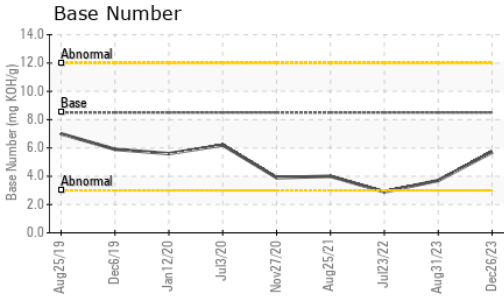
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.4	0.9	1.2
Nitration	Abs/cm *ASTM D7624 >20	11.3	14.6	16.7
Sulfation	Abs/.1mm *ASTM D7415 >30	24.9	30.5	37.1

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	25.8	35.5	43.0
Base Number (BN)	mg KOH/g ASTM D2896 8.5	5.7	3.7	▲ 2.9



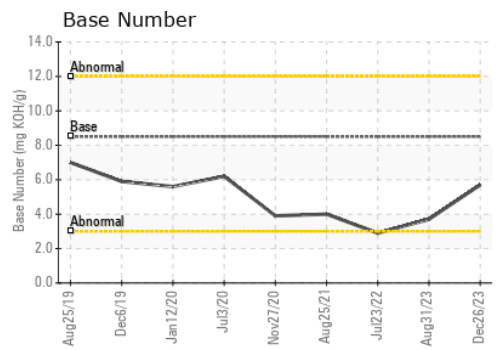
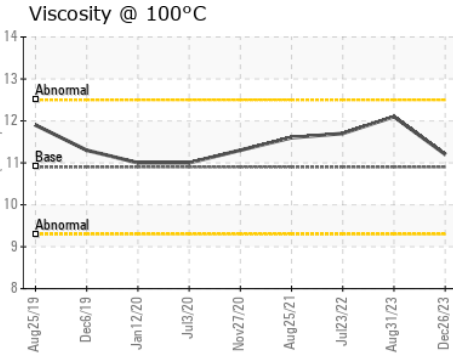
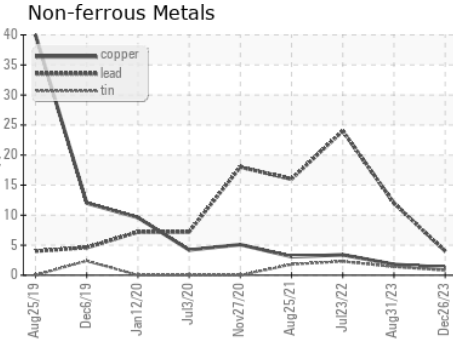
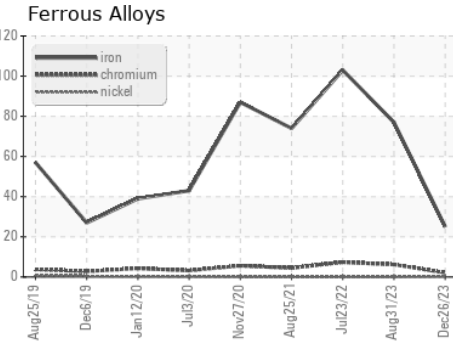
OIL ANALYSIS REPORT



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	10.9	11.2	12.1	11.7

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0876673 **Recieved** : 11 Jan 2024
Lab Number : **06058677** **Diagnosed** : 14 Jan 2024
Unique Number : 10830059 **Diagnostician** : Don Baldrige
Test Package : FLEET

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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)