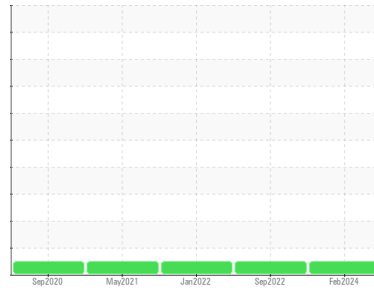




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id

**409**

Component

**Diesel Engine**

Fluid

**DISEL 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			<b>WC0876697</b>	WC0717390	WC0639557
Sample Date	Client Info			<b>24 Feb 2024</b>	08 Sep 2022	27 Jan 2022
Machine Age	mls	Client Info		<b>589693</b>	0	467211
Oil Age	mls	Client Info		<b>50000</b>	100000	0
Oil Changed	Client Info			<b>Changed</b>	Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2		<b>NEG</b>	NEG	NEG
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>30</b>	41	24
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	1	<1
Aluminum	ppm	ASTM D5185m	>20	<b>6</b>	11	7
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>330	<b>3</b>	7	6
Tin	ppm	ASTM D5185m	>15	<b>0</b>	1	<1
Antimony	ppm	ASTM D5185m		<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	<b>6</b>	6	11
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	100	<b>63</b>	57	64
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	450	<b>1109</b>	955	1137
Calcium	ppm	ASTM D5185m	3000	<b>855</b>	760	878
Phosphorus	ppm	ASTM D5185m	1150	<b>1044</b>	885	1052
Zinc	ppm	ASTM D5185m	1350	<b>1217</b>	1133	1151
Sulfur	ppm	ASTM D5185m	4250	<b>3639</b>	2737	2796

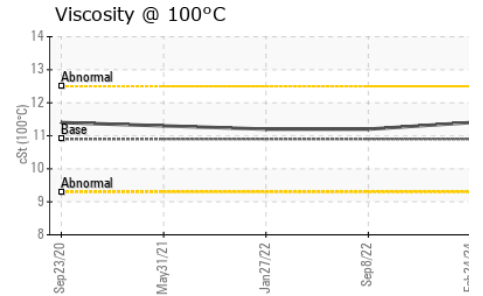
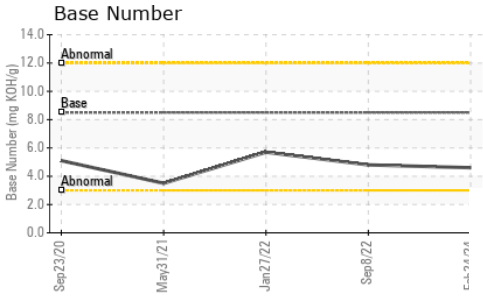
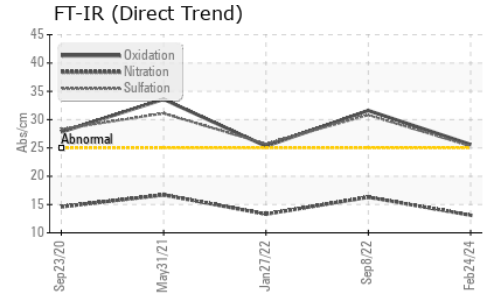
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>6</b>	6	6
Sodium	ppm	ASTM D5185m		<b>5</b>	3	7
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	5

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.6</b>	1	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.1</b>	16.3	13.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.3</b>	30.8	25.7

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>25.6</b>	31.6	25.3
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>4.6</b>	4.8	5.7



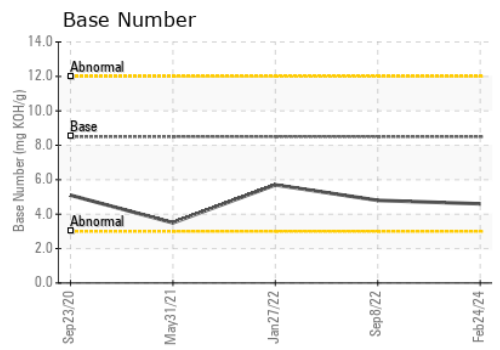
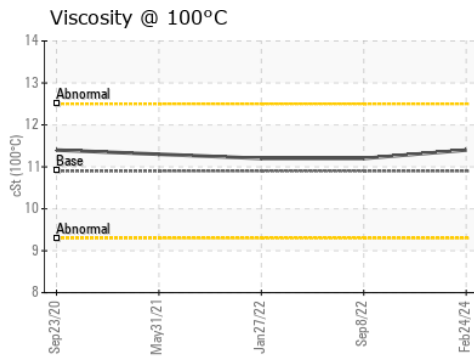
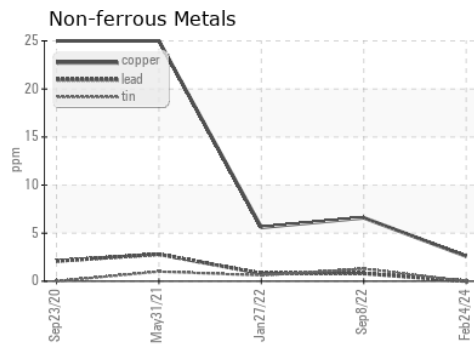
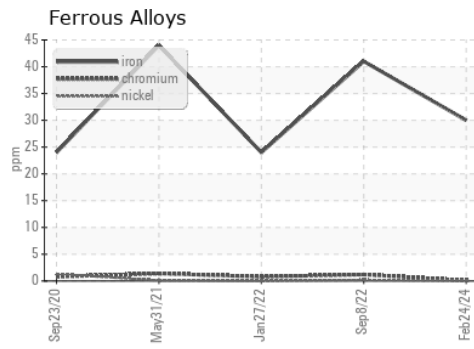
# OIL ANALYSIS REPORT



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	11.4	11.2

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0876697  
**Lab Number** : 06135535  
**Unique Number** : 10955000  
**Test Package** : FLEET  
**Received** : 01 Apr 2024  
**Tested** : 02 Apr 2024  
**Diagnosed** : 04 Apr 2024 - Sean Felton

**MABE TRUCKING**  
 PO BOX 1081  
 EDEN, NC  
 US 27289  
 Contact: MAINTENANCE  
 maintenancemanager@mabetrucking.com

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)