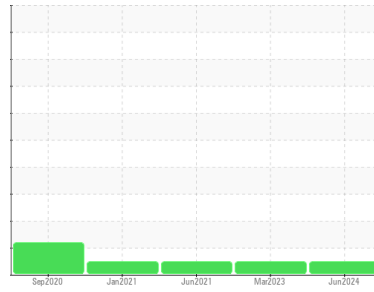


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id

**2113**

Component

**Diesel Engine**

Fluid

**DIESEL ENGINE OIL SAE 5W30 (--- GAL)**

**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>HRE0000217</b>	WC0786095	WC0556894
Sample Date	Client Info			<b>07 Jun 2024</b>	22 Mar 2023	13 Jun 2021
Machine Age	mls	Client Info		<b>493011</b>	367084	154237
Oil Age	mls	Client Info		<b>50000</b>	50000	100000
Oil Changed	Client Info			<b>Changed</b>	Changed	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>87</b>	55	46
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>8</b>	6	13
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	2
Copper	ppm	ASTM D5185m	>330	<b>13</b>	18	8
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	2
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

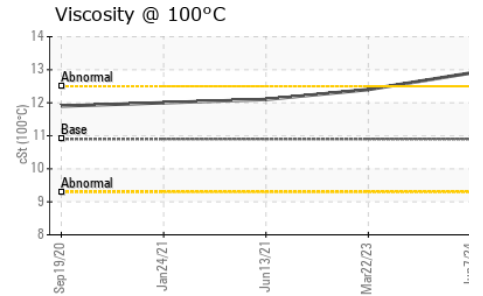
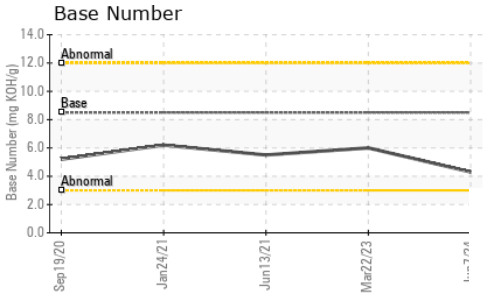
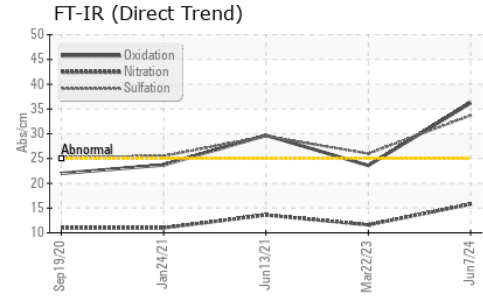
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	<b>18</b>	19	11
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	100	<b>74</b>	69	63
Manganese	ppm	ASTM D5185m		<b>2</b>	2	<1
Magnesium	ppm	ASTM D5185m	450	<b>1225</b>	732	1067
Calcium	ppm	ASTM D5185m	3000	<b>1047</b>	1580	914
Phosphorus	ppm	ASTM D5185m	1150	<b>1258</b>	1068	1023
Zinc	ppm	ASTM D5185m	1350	<b>1524</b>	1335	1165
Sulfur	ppm	ASTM D5185m	4250	<b>3580</b>	3462	2601

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>18</b>	15	8
Sodium	ppm	ASTM D5185m		<b>10</b>	10	5
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	6	44

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>1.8</b>	0.9	0.8
Nitration	Abs/cm	*ASTM D7624	>20	<b>15.8</b>	11.6	13.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>33.7</b>	26.0	29.5

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>36.2</b>	23.6	29.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>4.3</b>	6.0	5.5

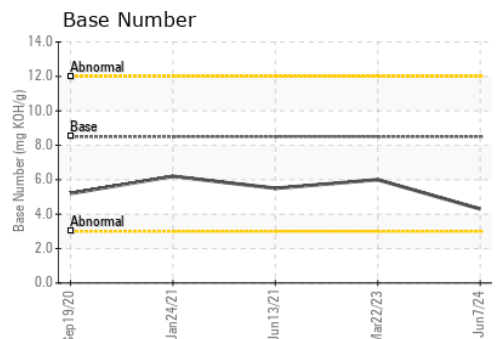
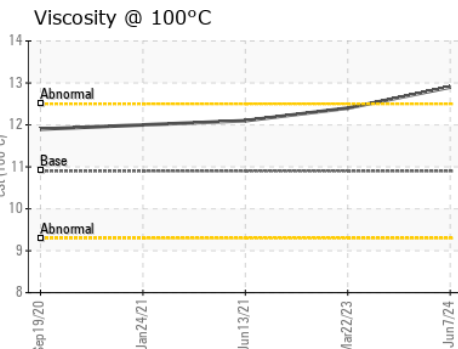
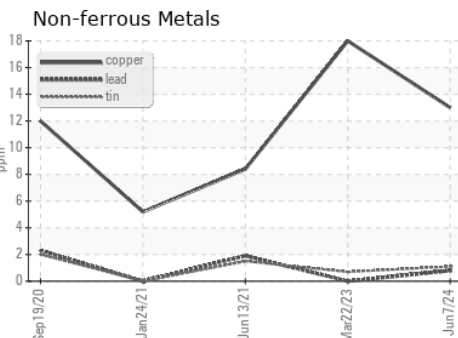
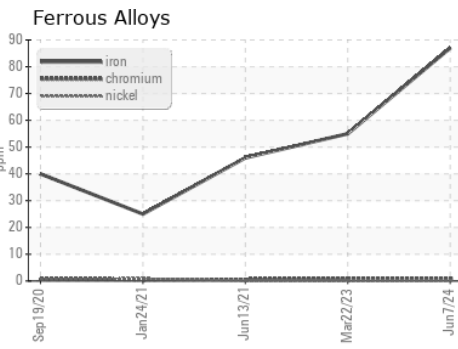
# OIL ANALYSIS REPORT



PARAMETER	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	12.9	12.4

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : HRE0000217  
**Lab Number** : 06217560  
**Unique Number** : 11090424  
**Test Package** : FLEET  
**Received** : 21 Jun 2024  
**Tested** : 25 Jun 2024  
**Diagnosed** : 25 Jun 2024 - Don Baldrige

**MABE TRUCKING**  
 PO BOX 1081  
 EDEN, NC  
 US 27289

Certificate L2367  
 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: MAINTENANCE manager@mabetrucking.com  
 T: (336)635-1791