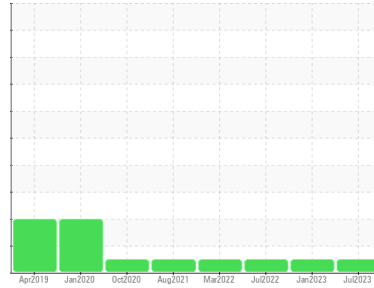




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**1906**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 5W30 (--- QTS)**

## DIAGNOSIS

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0814832</b>	WC0717346	WC0686091
Sample Date	Client Info			<b>02 Jul 2023</b>	21 Jan 2023	27 Jul 2022
Machine Age	mls	Client Info		<b>586043</b>	534474	484420
Oil Age	mls	Client Info		<b>100000</b>	100000	100000
Oil Changed	Client Info			<b>Changed</b>	Not Changd	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
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>61</b>	24	49
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<b>6</b>	3	5
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>330	<b>11</b>	4	5
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	1
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>13</b>	16	11
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	100	<b>73</b>	67	74
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	450	<b>1281</b>	1081	1072
Calcium	ppm	ASTM D5185m	3000	<b>985</b>	859	961
Phosphorus	ppm	ASTM D5185m	1150	<b>1176</b>	981	1024
Zinc	ppm	ASTM D5185m	1350	<b>1516</b>	1304	1294
Sulfur	ppm	ASTM D5185m	4250	<b>4007</b>	3653	2971

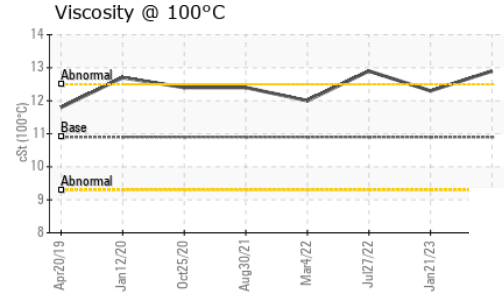
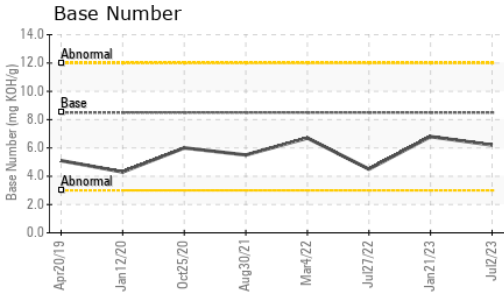
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>10</b>	10	8
Sodium	ppm	ASTM D5185m		<b>6</b>	3	5
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	2	7

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>1.2</b>	0.7	1.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>14.2</b>	11.5	16.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>28.1</b>	23.7	33.5

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>28.5</b>	22.7	35.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>6.2</b>	6.8	4.5



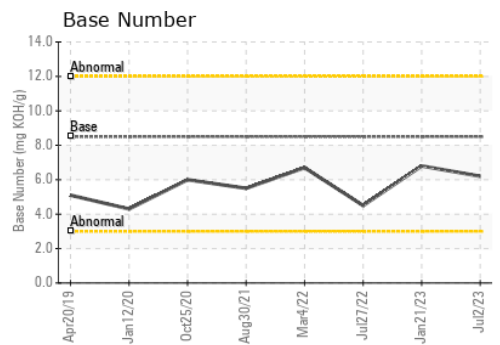
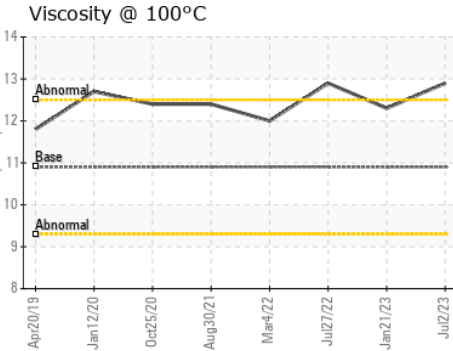
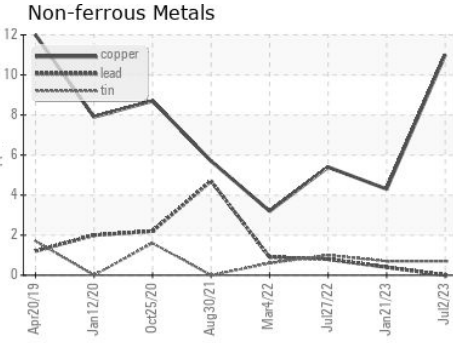
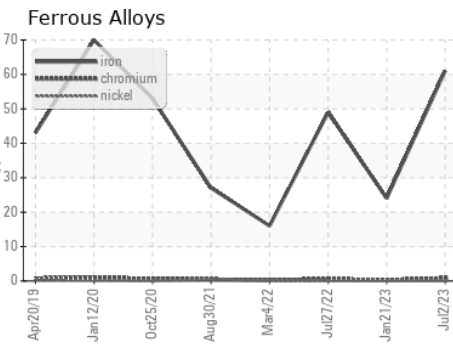
# OIL ANALYSIS REPORT



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	<b>12.9</b>	12.3	12.9

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0814832 **Received** : 20 Jul 2023  
**Lab Number** : **05903691** **Diagnosed** : 24 Jul 2023  
**Unique Number** : 10565047 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**MABE TRUCKING**  
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 EDEN, NC  
 US 27289  
 Contact: MAINTENANCE  
 maintenancemanager@mabetrucking.com  
 T:  
 F: (336)635-1791

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)