



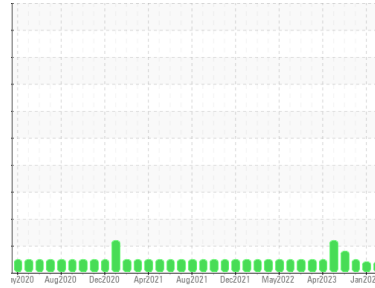
# OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Area  
**Kenova**  
 Machine Id  
**[Kenova] Oil - Port Genset**  
 Component  
**Port Genset**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (8 GAL)**



## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0805211</b>	WC0805205	WC0805225
Sample Date	Client Info		<b>11 Mar 2024</b>	16 Jan 2024	20 Nov 2023
Machine Age	hrs	Client Info	<b>1000</b>	496	22140
Oil Age	hrs	Client Info	<b>1000</b>	496	510
Oil Changed	Client Info		<b>Changed</b>	Not Changd	Not Changd
Sample Status			<b>ATTENTION</b>	ATTENTION	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>12</b>	12	27
Chromium	ppm	ASTM D5185m >4	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m >2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m >5	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >12	<b>&lt;1</b>	4	2
Lead	ppm	ASTM D5185m >17	<b>2</b>	4	0
Copper	ppm	ASTM D5185m >70	<b>22</b>	8	0
Tin	ppm	ASTM D5185m >15	<b>0</b>	2	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	<b>190</b>	259	144
Barium	ppm	ASTM D5185m 10	<b>0</b>	1	0
Molybdenum	ppm	ASTM D5185m 100	<b>203</b>	231	89
Manganese	ppm	ASTM D5185m	<b>0</b>	3	<1
Magnesium	ppm	ASTM D5185m 450	<b>791</b>	769	600
Calcium	ppm	ASTM D5185m 3000	<b>1419</b>	1312	1510
Phosphorus	ppm	ASTM D5185m 1150	<b>698</b>	837	707
Zinc	ppm	ASTM D5185m 1350	<b>894</b>	976	837
Sulfur	ppm	ASTM D5185m 4250	<b>3106</b>	2794	2679

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>5</b>	7	3
Sodium	ppm	ASTM D5185m >158	<b>2</b>	6	6
Potassium	ppm	ASTM D5185m >20	<b>1</b>	7	<1
Fuel	%	ASTM D3524 >4.0	<b>&lt;1.0</b>	0.3	<1.0
Water	%	ASTM D6304 >0.1	<b>NEG</b>	NEG	NEG

## INFRA-RED

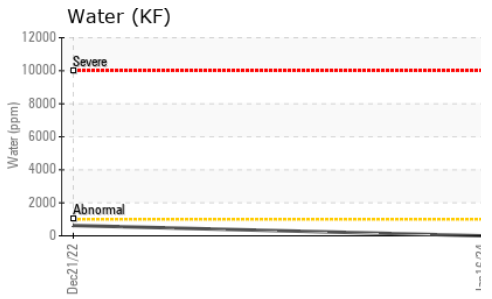
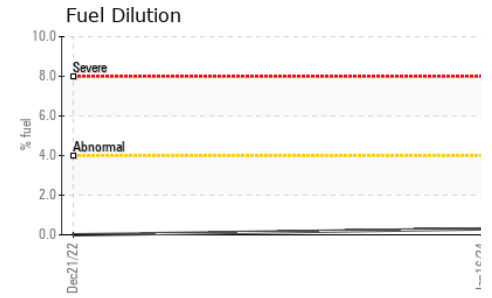
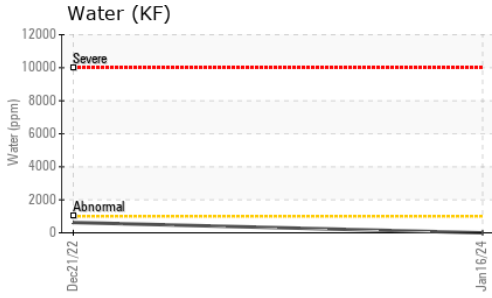
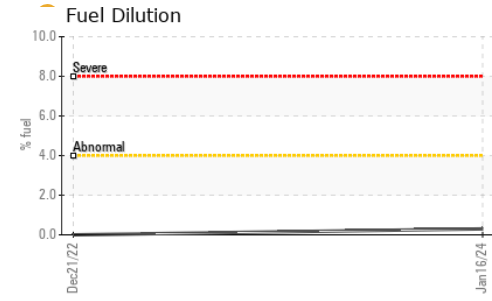
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0.1</b>	0.1	0.2
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.7</b>	8.5	13.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>22.5</b>	21.4	24.6

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>20.3</b>	17.4	28.1
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	<b>9.51</b>	10.15	9.16



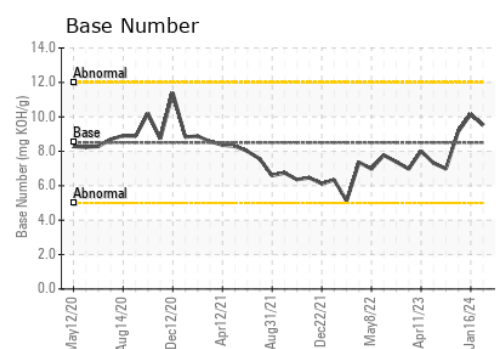
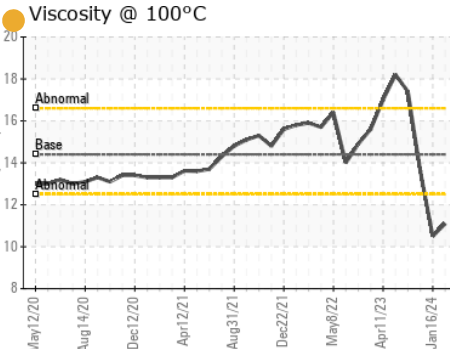
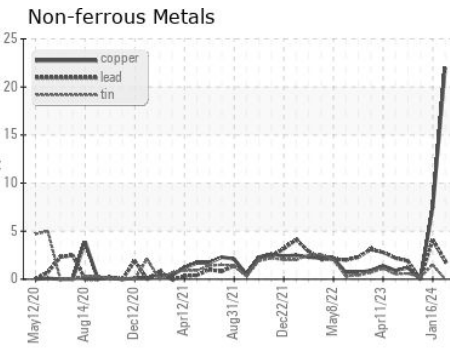
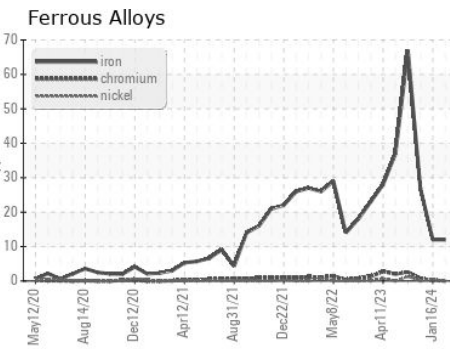
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
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	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	14.4	● 11.1	● 10.5	13.6

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0805211 **Received** : 19 Mar 2024  
**Lab Number** : 06122620 **Tested** : 21 Mar 2024  
**Unique Number** : 10936771 **Diagnosed** : 21 Mar 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: FuelDilution, KF, PercentFuel )

**MARATHON PETROLEUM CO.**  
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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)