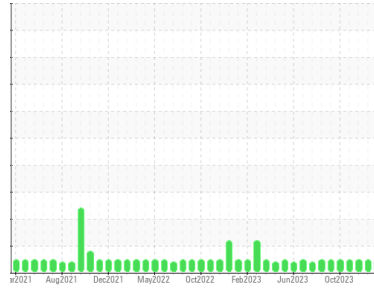




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**Martinsville**  
 Machine Id  
**[Martinsville] Oil - Port Genset**  
 Component  
**Port Genset**  
 Fluid  
**MOBIL 15W40 (7 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>WC0845819</b>	WC0735537	WC0845818
Sample Date	Client Info		<b>15 Feb 2024</b>	21 Jan 2024	23 Dec 2023
Machine Age	hrs	Client Info	<b>6623</b>	6442	6041
Oil Age	hrs	Client Info	<b>174</b>	391	0
Oil Changed	Client Info		<b>Filtered</b>	Not Changd	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<b>&lt;1.0</b>	0.3	<1.0
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	<b>2</b>	4	<1
Chromium	ppm	ASTM D5185m	>4	<b>0</b>	0	0
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>	0	0
Aluminum	ppm	ASTM D5185m	>12	<b>0</b>	2	2
Lead	ppm	ASTM D5185m	>17	<b>0</b>	3	<1
Copper	ppm	ASTM D5185m	>70	<b>0</b>	2	<1
Tin	ppm	ASTM D5185m	>15	<b>0</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		<b>26</b>	33	30
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>59</b>	69	58
Manganese	ppm	ASTM D5185m		<b>0</b>	2	<1
Magnesium	ppm	ASTM D5185m		<b>1458</b>	1446	1397
Calcium	ppm	ASTM D5185m		<b>1176</b>	1182	1051
Phosphorus	ppm	ASTM D5185m		<b>947</b>	1051	996
Zinc	ppm	ASTM D5185m		<b>1159</b>	1264	1217
Sulfur	ppm	ASTM D5185m		<b>3661</b>	3205	3247

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	<b>2</b>	4	5
Sodium	ppm	ASTM D5185m	>118	<b>0</b>	4	<1
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	3	2
Water	%	ASTM D6304	>0.1	<b>NEG</b>	NEG	NEG

## INFRA-RED

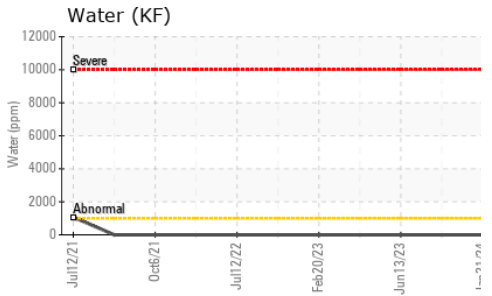
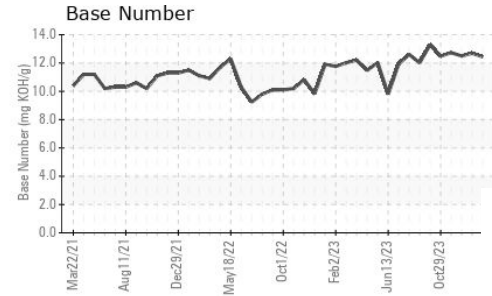
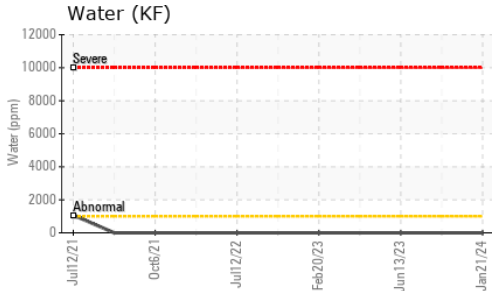
	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.1</b>	8.1	5.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.0</b>	20.1	18.3

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.9</b>	16.2	13.8
Base Number (BN)	mg KOH/g	ASTM D2896		<b>12.44</b>	12.69	12.50



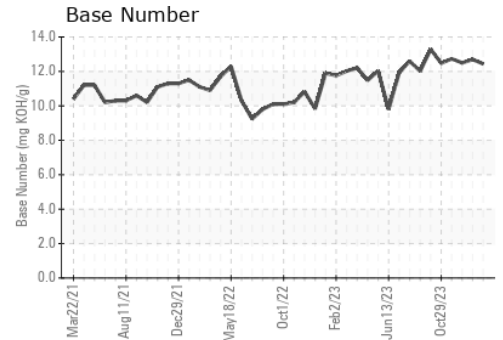
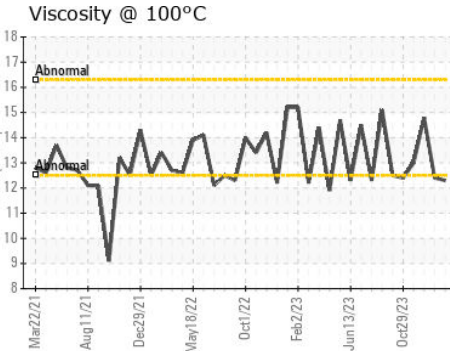
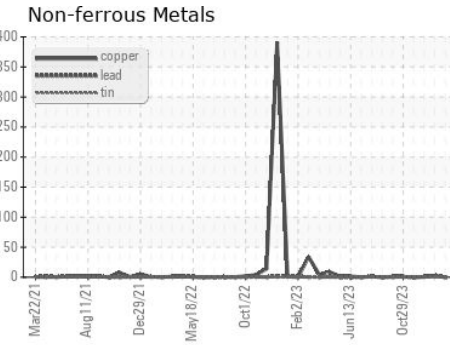
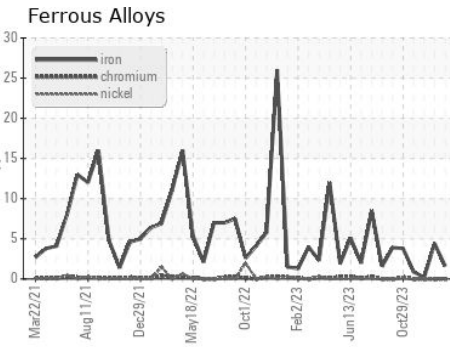
# OIL ANALYSIS REPORT



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	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.3	12.4	14.8

## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : WC0845819  
 Lab Number : 06122606  
 Unique Number : 10936757  
 Test Package : IND 2 ( Additional Tests: KF )

Received : 19 Mar 2024  
 Tested : 21 Mar 2024  
 Diagnosed : 21 Mar 2024 - Jonathan Hester

**MARATHON PETROLEUM CO.**  
 101 12TH ST  
 CATLETTSBURG, KY  
 US 41169

Contact: CORY GUMBERT  
 cagumbert@marathonpetroleum.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)

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F: x: