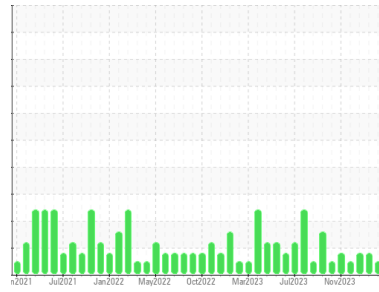




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**Louisville**

Machine Id

**[Louisville] Oil - Port Genset**

Component

**Port Genset**

Fluid

**MOBIL 15W40 (35 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>WC0874763</b>	WC0859848	WC0859843
Sample Date	Client Info		<b>28 Apr 2024</b>	25 Jan 2024	29 Dec 2023
Machine Age	hrs	Client Info	<b>1850</b>	2130	0
Oil Age	hrs	Client Info	<b>1414</b>	1696	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<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	>50	<b>29</b>	33	20
Chromium	ppm	ASTM D5185m	>4	<b>1</b>	1	1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>12	<b>2</b>	1	2
Lead	ppm	ASTM D5185m	>17	<b>13</b>	▲ 22	▲ 18
Copper	ppm	ASTM D5185m	>70	<b>7</b>	7	8
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>13</b>	27	27
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>65</b>	68	65
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185m		<b>1540</b>	1678	1500
Calcium	ppm	ASTM D5185m		<b>1251</b>	1321	1133
Phosphorus	ppm	ASTM D5185m		<b>1135</b>	1146	1048
Zinc	ppm	ASTM D5185m		<b>1364</b>	1418	1291
Sulfur	ppm	ASTM D5185m		<b>3411</b>	3488	3173

## CONTAMINANTS

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

## INFRA-RED

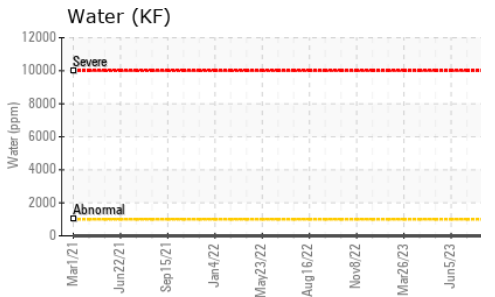
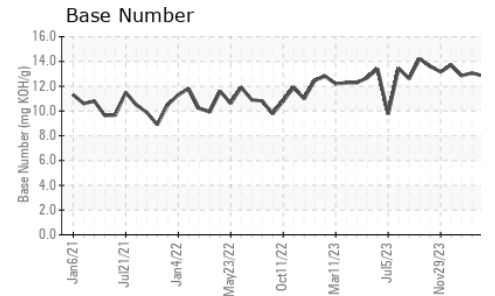
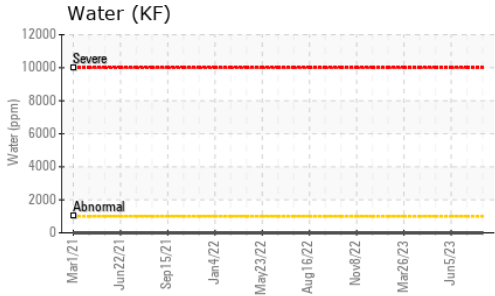
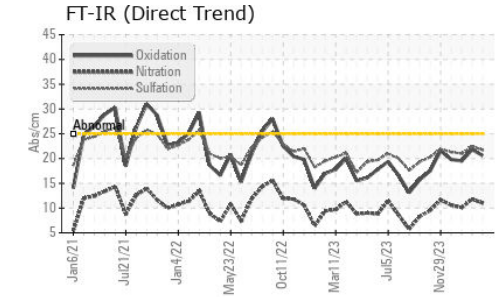
	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		<b>0.3</b>	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.0</b>	11.8	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.7</b>	22.5	21.0

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.6</b>	21.8	19.5
Base Number (BN)	mg KOH/g	ASTM D2896		<b>12.84</b>	13.06	12.86



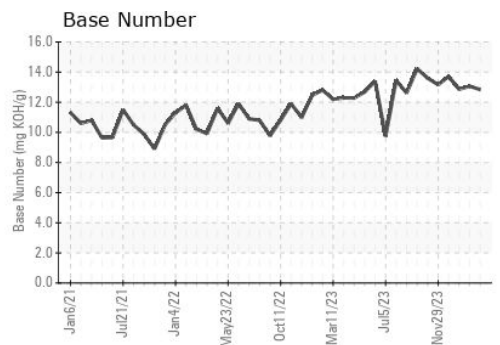
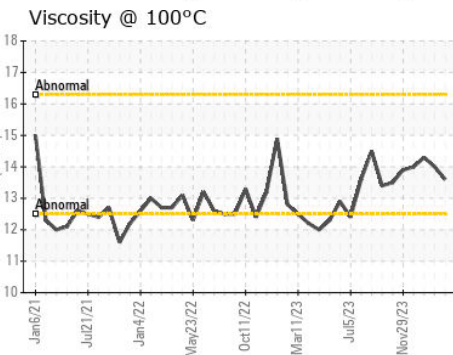
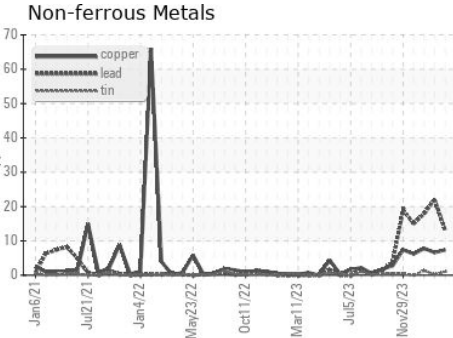
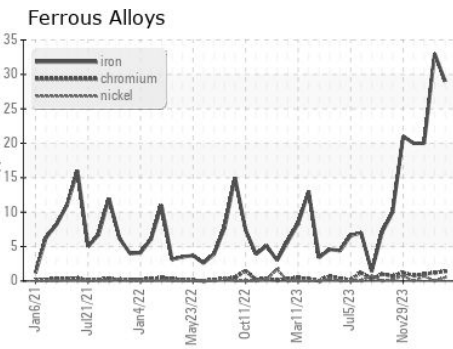
# OIL ANALYSIS REPORT



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	<b>13.6</b>	14.0	14.3

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0874763  
**Lab Number** : 06181565  
**Unique Number** : 11032891  
**Test Package** : IND 2 ( Additional Tests: KF )  
**Received** : 16 May 2024  
**Tested** : 20 May 2024  
**Diagnosed** : 20 May 2024 - Sean Felton

**MARATHON PETROLEUM CO.**  
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 CATLETTSBURG, KY  
 US 41169  
 Contact: CORY GUMBERT  
 cagumbert@marathonpetroleum.com  
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 F: x:

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)