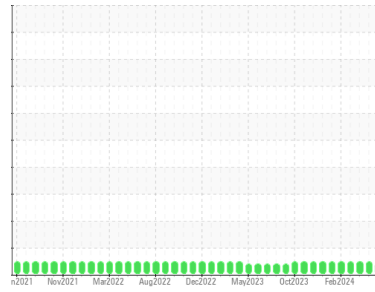




# OIL ANALYSIS REPORT

## Sample Rating Trend



## VISCOSITY



Area

### Findlay

Machine Id

## [Findlay] Oil - Port Genset

Component

### Port Genset

Fluid

### MOBIL 15W40 (8 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. An increase in the viscosity is noted.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0874644</b>	WC0874730	WC0874737
Sample Date	Client Info		<b>18 Jun 2024</b>	14 May 2024	23 Apr 2024
Machine Age	hrs	Client Info	<b>11809</b>	11503	11279
Oil Age	hrs	Client Info	<b>3347</b>	2997	2781
Oil Changed	Client Info		<b>Filtered</b>	Filtered	Not Chngd
Sample Status			<b>ATTENTION</b>	NORMAL	NORMAL

## 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>12</b>	11	11
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>12	<b>2</b>	2	2
Lead	ppm	ASTM D5185m	>17	<b>0</b>	1	2
Copper	ppm	ASTM D5185m	>70	<b>2</b>	2	2
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	<1

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>26</b>	28	27
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>57</b>	58	61
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>1475</b>	1459	1472
Calcium	ppm	ASTM D5185m		<b>1400</b>	1376	1432
Phosphorus	ppm	ASTM D5185m		<b>1157</b>	1098	1289
Zinc	ppm	ASTM D5185m		<b>1397</b>	1395	1418
Sulfur	ppm	ASTM D5185m		<b>3864</b>	3867	3649

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	<b>3</b>	4	5
Sodium	ppm	ASTM D5185m	>118	<b>8</b>	6	4
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	2	4
Water	%	ASTM D6304	>0.1	<b>NEG</b>	NEG	NEG

## INFRA-RED

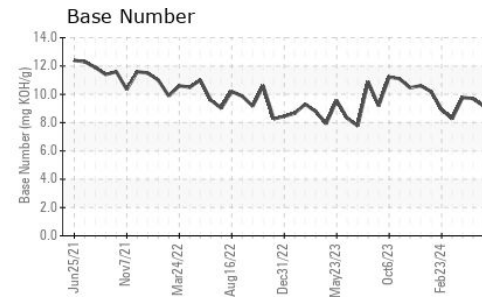
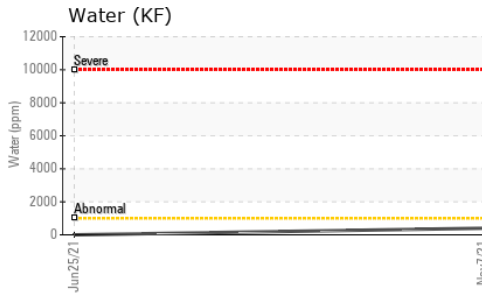
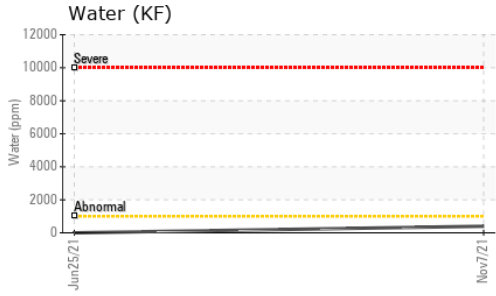
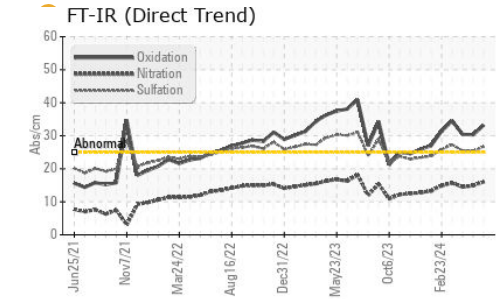
	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		<b>0.2</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>16.0</b>	14.9	14.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.7</b>	25.4	25.5

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>33.2</b>	30.3	30.4
Base Number (BN)	mg KOH/g	ASTM D2896		<b>9.16</b>	9.70	9.77



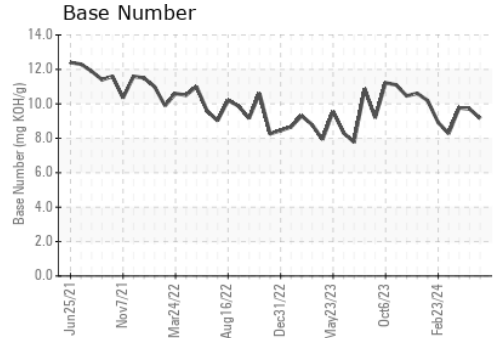
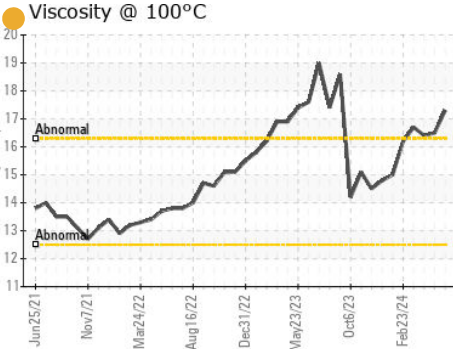
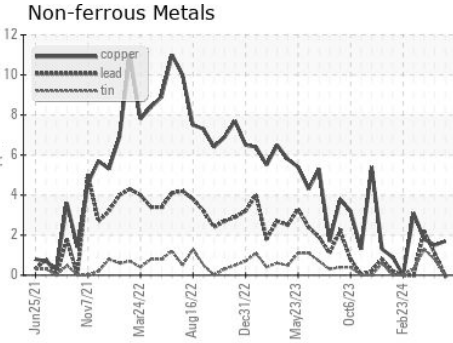
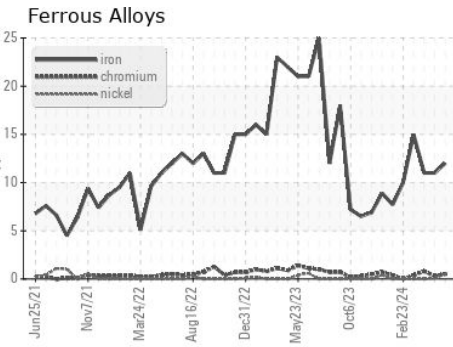
# OIL ANALYSIS REPORT



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	17.3	16.5	16.4

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0874644      **Received** : 25 Jun 2024  
**Lab Number** : 06219919      **Tested** : 26 Jun 2024  
**Unique Number** : 11098116      **Diagnosed** : 26 Jun 2024 - Sean Felton  
**Test Package** : IND 2 ( Additional Tests: KF )

**MARATHON PETROLEUM CO.**  
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 CATLETTSBURG, KY  
 US 41169  
 Contact: SHAWN MCCLASKEY  
 stmccaskey@marathonpetroleum.com  
 T: (606)739-2416  
 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)