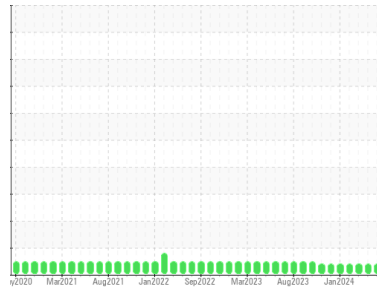




# OIL ANALYSIS REPORT

Sample Rating Trend



## VISCOSITY



Area

**Kentucky**

Machine Id

**[Kentucky] Oil - Port Reduction Gear**

Component

**Port Reduction Gear**

Fluid

**SAE 30W (26 GAL)**

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. 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 higher than normal. Confirm oil type. The AN level is acceptable for this fluid.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0898540</b>	WC0845807	WC0860056
Sample Date	Client Info		<b>25 May 2024</b>	25 Apr 2024	16 Mar 2024
Machine Age	hrs	Client Info	<b>14978</b>	14450	13560
Oil Age	hrs	Client Info	<b>1689</b>	1161	271
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Changed
Sample Status			<b>ATTENTION</b>	ATTENTION	ATTENTION

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	<b>5</b>	4	4
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m >10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	<b>0</b>	2	0
Aluminum	ppm	ASTM D5185m >25	<b>2</b>	1	1
Lead	ppm	ASTM D5185m >100	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m >50	<b>5</b>	4	1
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>70</b>	56	63
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	2	0
Molybdenum	ppm	ASTM D5185m	<b>23</b>	22	22
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m	<b>357</b>	330	344
Calcium	ppm	ASTM D5185m	<b>712</b>	681	673
Phosphorus	ppm	ASTM D5185m	<b>839</b>	780	873
Zinc	ppm	ASTM D5185m	<b>597</b>	539	580
Sulfur	ppm	ASTM D5185m	<b>10204</b>	8833	10836

### CONTAMINANTS

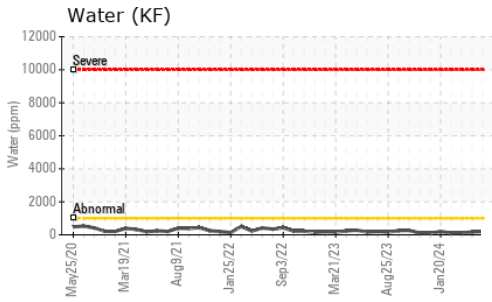
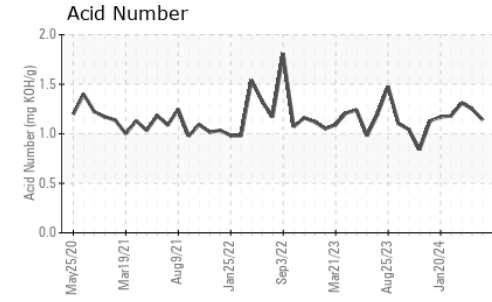
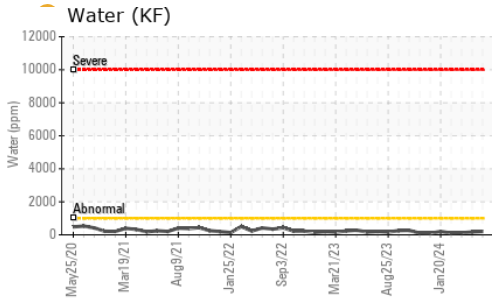
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>2</b>	4	1
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Potassium	ppm	ASTM D5185m >20	<b>2</b>	1	2
Water	%	ASTM D6304 >0.1	<b>0.020</b>	0.017	0.012
ppm Water	ppm	ASTM D6304 >1000	<b>204</b>	173	122

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>1.14</b>	1.25	1.31



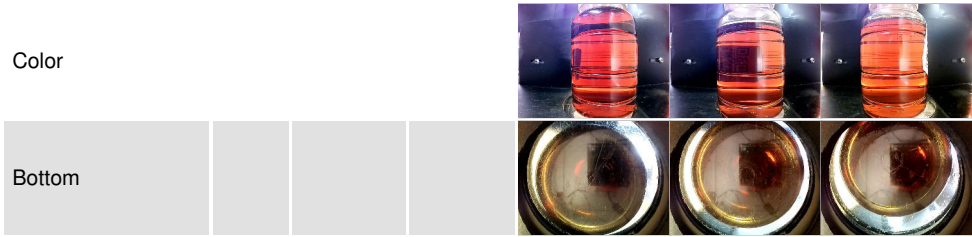
# OIL ANALYSIS REPORT



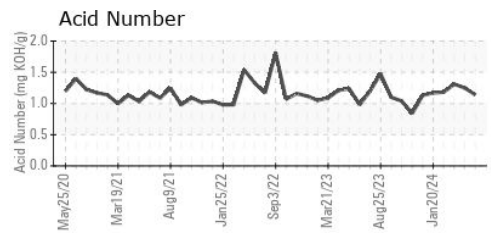
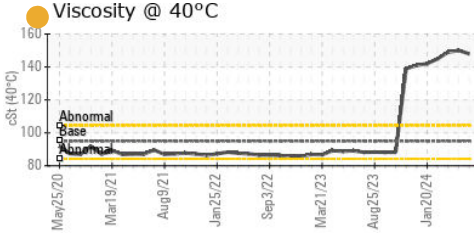
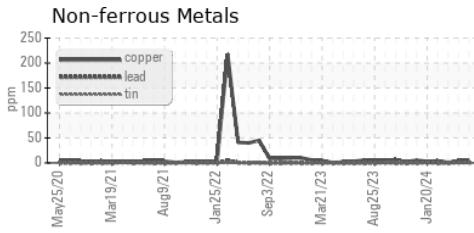
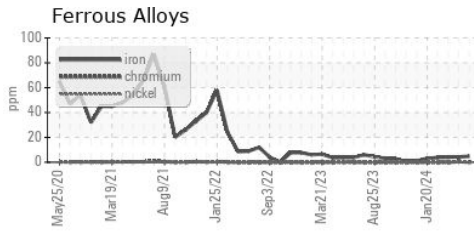
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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 @ 40°C	cSt	ASTM D445	95.0 ● 148	150	149

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0898540      **Received** : 06 Jun 2024  
**Lab Number** : 06201561      **Tested** : 10 Jun 2024  
**Unique Number** : 11063684      **Diagnosed** : 10 Jun 2024 - Angela Borella  
**Test Package** : IND 2 ( Additional Tests: KF, PQ )

**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)

T: (606)585-3950

F: x: