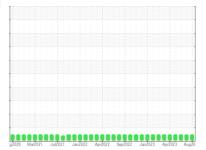


# **OIL ANALYSIS REPORT**

# **Detroit** [Detroit] Oil - Port Reduction Gear

**Port Reduction Gear** 

**MOBIL 30W (35 GAL)** 



Sample Rating Trend



### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Chris wray )

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

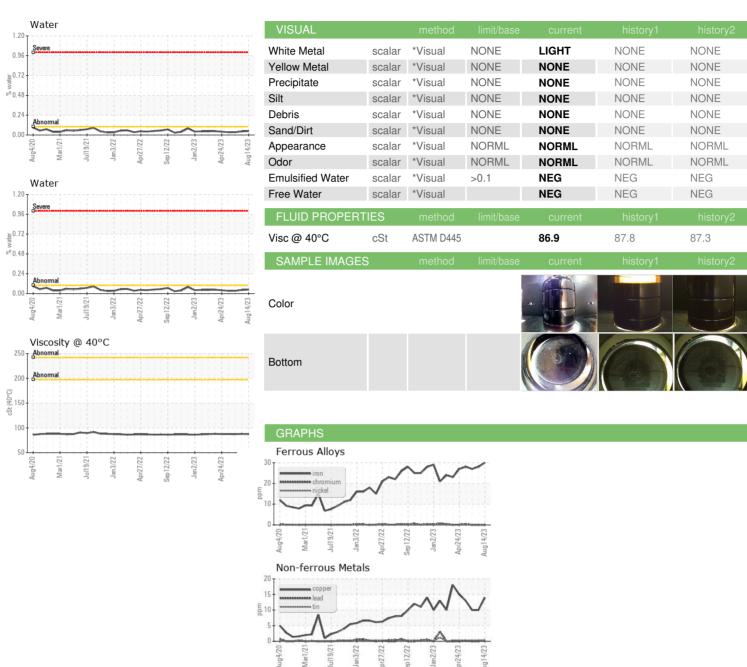
### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0735822	WC0769388	WC0735709
Sample Date		Client Info		14 Aug 2023	17 Jul 2023	19 Jun 2023
Machine Age	hrs	Client Info		25240	24791	24316
Oil Age	hrs	Client Info		16177	15728	15253
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	30	28	27
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	0
Lead	ppm	ASTM D5185m	>100	<1	0	0
Copper	ppm	ASTM D5185m	>50	14	10	10
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		32	35	29
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		11	12	12
Manganese	ppm	ASTM D5185m				
Magnesium		710 THI DOTOOTTI		<1	<1	<1
Magnosium	ppm	ASTM D5185m		224	<1 239	<1 225
Calcium	ppm ppm					
•		ASTM D5185m		224	239	225
Calcium	ppm	ASTM D5185m ASTM D5185m		224 3055	239 3252	225 3105
Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		224 3055 879	239 3252 968	225 3105 936
Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	224 3055 879 1018	239 3252 968 1067	225 3105 936 1052
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >50	224 3055 879 1018 8183	239 3252 968 1067 8851	225 3105 936 1052 8050
Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method		224 3055 879 1018 8183 current	239 3252 968 1067 8851 history1	225 3105 936 1052 8050 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m		224 3055 879 1018 8183 current	239 3252 968 1067 8851 history1	225 3105 936 1052 8050 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	>50 >20	224 3055 879 1018 8183 current 5	239 3252 968 1067 8851 history1 4	225 3105 936 1052 8050 history2 5
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m	>50 >20	224 3055 879 1018 8183 current 5 1	239 3252 968 1067 8851 history1 4 3	225 3105 936 1052 8050 history2 5 0
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m  METHOD  ASTM D5185m	>50 >20 >0.1	224 3055 879 1018 8183 current 5 1 0	239 3252 968 1067 8851 history1 4 3 0 0.043	225 3105 936 1052 8050 history2 5 0 2



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory

Sample No. Lab Number

**Unique Number** : 10617417

250

200 (200 ± 150

50

Test Package : IND 2 (Additional Tests: KF)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : WC0735822 : 23 Aug 2023 : 05932146 Diagnosed : 24 Aug 2023

Sep 12/22

Diagnostician : Don Baldridge

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)

MARATHON PETROLEUM CO.

101 12TH ST CATLETTSBURG, KY US 41169

Contact: SHAWN MCCLASKEY stmcclaskey@marathonpetroleum.com

T: (606)739-2416

Acid Number

(mg K0H/g)

و 0.5 آھ 9.0 G

Aug14/23

Viscosity @ 40°C

F: x: