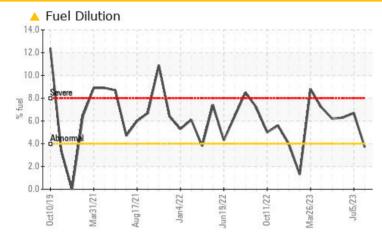


# **PROBLEM SUMMARY**

Area **Louisville** Machine Id **Louisville] Oil - Port Genset** Fluid MOBIL 15W40 (35 GAL)

#### COMPONENT CONDITION SUMMARY



# Sample Rating Trend VISUAL METAL

#### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL	
Fuel	%	ASTM D3524	>4.0	<b>A</b> 3.7	<b>6</b> .7	<b>6</b> .3	
White Metal	scalar	*Visual	NONE	🔺 MODER	NONE	NONE	
Debris	scalar	*Visual	NONE	A MODER	NONE	NONE	

Customer Id: MARCAT Sample No.: WC0769115 Lab Number: 05932235 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component.		

#### **HISTORICAL DIAGNOSIS**

#### 05 Jul 2023 Diag: Jonathan Hester



We advise that you check the fuel injection system. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

#### 05 Jun 2023 Diag: Sean Felton



We advise that you check the fuel injection system. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate amount of fuel present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

20 May 2023 Diag: Jonathan Hester

We advise that you check the fuel injection system. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



view report

view report







## **OIL ANALYSIS REPORT**

#### Sample Rating Trend

#### **VISUAL METAL**

#### Area Louisville Machine Id [Louisville] Oil - Port Genset Component

Port Genset

### MOBIL 15W40 (35 GAL)

#### DIAGNOSIS

#### A Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

#### 📥 Wear

Moderate concentration of visible metal present. All component wear rates are normal.

#### Contamination

Light fuel dilution occurring. Moderate concentration of visible dirt/debris present in the oil.

#### Fluid Condition

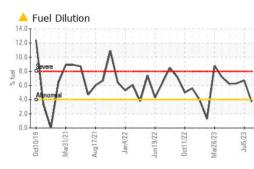
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

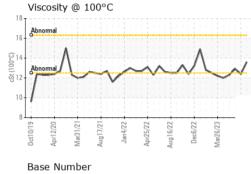
# 

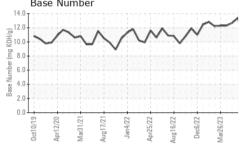
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0769115	WC0769310	WC0735757
Sample Date		Client Info		12 Aug 2023	05 Jul 2023	05 Jun 2023
Machine Age	hrs	Client Info		337	0	21844
Oil Age	hrs	Client Info		0	0	486
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>25	7	7	4
Chromium	ppm	ASTM D5185m	>5	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>5	<1	0	0
Aluminum	ppm	ASTM D5185m	>10	2	<1	0
Lead	ppm	ASTM D5185m	>10	1	0	0
Copper	ppm	ASTM D5185m	>20	2	2	<1
Tin	ppm	ASTM D5185m	>5	1	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		36	24	27
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		67	63	58
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1637	1545	1480
Calcium	ppm	ASTM D5185m		1349	1264	1154
Phosphorus	ppm	ASTM D5185m		1148	1041	1006
Zinc	ppm	ASTM D5185m		1404	1312	1248
Sulfur	ppm	ASTM D5185m		4400	4013	3974
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	15
Sodium	ppm	ASTM D5185m	>118	4	<1	<1
Potassium	ppm	ASTM D5185m	>20	2	1	<1
Fuel	%	ASTM D3524	>4.0	<b>A</b> 3.7	▲ 6.7	▲ 6.3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.6	11.5	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	21.0	19.7
FLUID DEGRADAT	ION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	19.4	17.8
Base Number (BN)	mg KOH/g	ASTM D2896		13.45	9.75	13.39
	3					



# **OIL ANALYSIS REPORT**





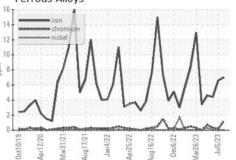


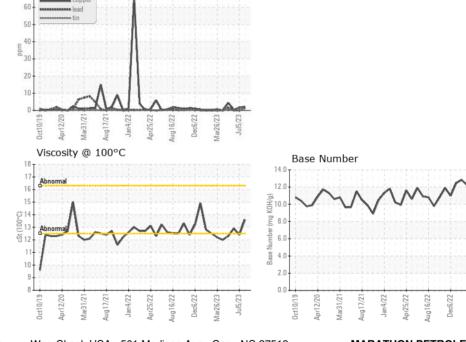
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	A MODER	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	🔺 MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		13.6	12.4	12.9
GRAPHS						



Non-ferrous Metals

70





MARATHON PETROLEUM CO. Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0769115 Received : 23 Aug 2023 101 12TH ST Lab Number : 05932235 Diagnosed : 24 Aug 2023 CATLETTSBURG, KY Unique Number : 10617506 Diagnostician : Don Baldridge US 41169 Test Package : IND 2 (Additional Tests: PercentFuel) Contact: CORY GUMBERT Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. cagumbert@marathonpetroleum.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (606)585-3950 F: x:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

lul5/23

ar26/73