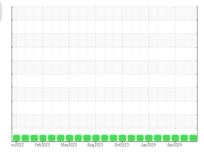


# **OIL ANALYSIS REPORT**

# **West Virginia** [West Virginia] Oil - Port Genset

Port Genset

**NOT GIVEN (8 GAL)** 



Sample Rating Trend



### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Thurman Richardson )

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

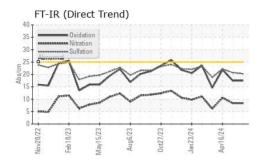
### Fluid Condition

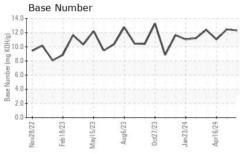
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

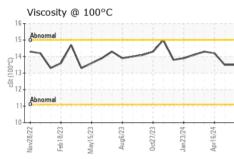
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0731872	WC0874541	WC0769378
Sample Date		Client Info		09 Jun 2024	13 May 2024	16 Apr 2024
Machine Age	hrs	Client Info		28416	28135	27995
Oil Age	hrs	Client Info		483	600	500
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	4	7
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>5	0	<1	<1
Aluminum	ppm	ASTM D5185m	>12	2	2	2
Lead	ppm	ASTM D5185m	>17	<1	<1	2
Copper	ppm	ASTM D5185m	>70	<1	1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		<1	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		11	10	11
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		65	65	71
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		1460	1388	1458
Calcium	ppm	ASTM D5185m		1231	1226	1262
Phosphorus	ppm	ASTM D5185m		1085	1083	1165
Zinc	ppm	ASTM D5185m		1340	1290	1332
Sulfur	ppm	ASTM D5185m		3567	3533	3465
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	5
Sodium	ppm	ASTM D5185m		5	5	3
Potassium	ppm	ASTM D5185m	>20	1	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.4	10.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	20.7	22.2
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	17.5	21.9
Base Number (BN)	mg KOH/g	ASTM D2896	/20	12.29	12.45	11.03
Dasc Humber (DIV)	mg NOTI/g	70 HVI D2030		12.23	12.40	11.00



## **OIL ANALYSIS REPORT**



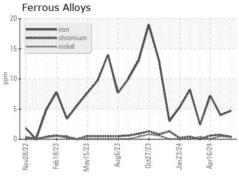


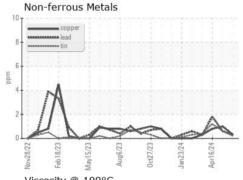


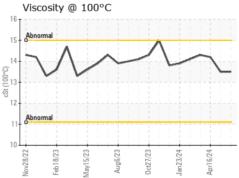
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

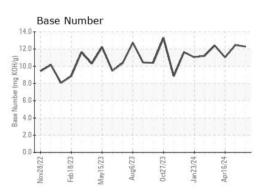
FLUID PROPER	RIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445		13.5	13.5	14.2

### **GRAPHS**













Laboratory Sample No.

: WC0731872 Lab Number : 06210379 Unique Number : 11083243

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received : 14 Jun 2024 **Tested** : 17 Jun 2024 Diagnosed

: 18 Jun 2024 - Don Baldridge

US 41169 Contact: CORY GUMBERT

cagumbert@marathonpetroleum.com T: (606)585-3950

MARATHON PETROLEUM CO.

Test Package : IND 2 Certificate 12367 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)

Report Id: MARCAT [WUSCAR] 06210379 (Generated: 06/22/2024 04:16:12) Rev: 1

Submitted By: M/V WEST VIRGINIA

F: x:

101 12TH ST

CATLETTSBURG, KY