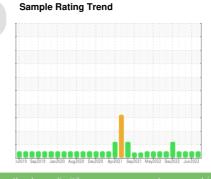


OIL ANALYSIS REPORT

Mt. Vernon [Mt. Vernon] Oil - Port Genset

Port Genset

DIESEL ENGINE OIL SAE 15W40 (35 GAL)





Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Ronnie Wilbanks)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

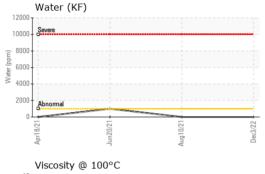
Fluid Condition

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

SAMPLE INFORM	MATION	method				history2
Sample Number		Client Info		WC0735754	WC0683523	WC0683520
Sample Date		Client Info		09 Sep 2023	13 Jun 2023	17 May 2023
Machine Age	hrs	Client Info		13866	12744	12340
Oil Age	hrs	Client Info		1122	1459	1055
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel	<u> </u>	WC Method	>4.0	<1.0	<1.0	<1.0
Glycol		WC Method	74.0	NEG	NEG	NEG
			limait/lanana			
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	16	18	15
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		12	12	11
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>12	2	<1	5
Lead	ppm	ASTM D5185m	>17	<1	0	0
Copper	ppm	ASTM D5185m	>70	<1	<1	8
Tin	ppm	ASTM D5185m	>15	<1	<1	0
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	250	49	40	54
Barium	ppm	ASTM D5185m	10	2	0	0
Molybdenum	ppm	ASTM D5185m	100	28	34	33
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	450	627	636	670
Calcium	ppm	ASTM D5185m	3000	1694	1714	1770
Phosphorus	ppm	ASTM D5185m	1150	725	701	740
Zinc	ppm	ASTM D5185m	1350	896	900	891
Sulfur	ppm	ASTM D5185m	4250	3291	3456	3674
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	5	4
Sodium	ppm	ASTM D5185m	>158	6	8	10
Potassium	ppm	ASTM D5185m	>20	3	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	10.8	11.7	11.5
Sulfation	Abs/.1mm	*ASTM D7415		21.4	22.7	22.5
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	22.9	21.9
Base Number (BN)	mg KOH/g	ASTM D2896		9.07	8.13	8.23

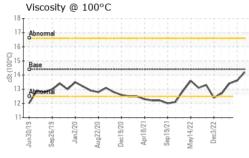


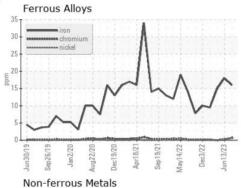
OIL ANALYSIS REPORT



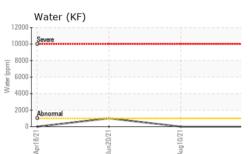
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FILLID DDODED	FIFO		11 11 11			

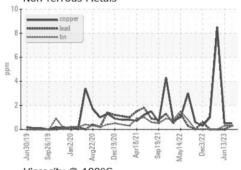
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	14.2	13.6	13.4

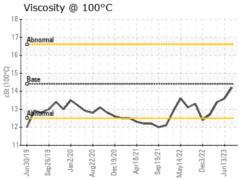


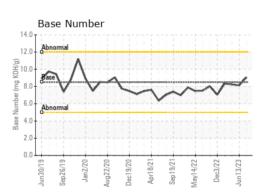


GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0735754 : 05960780 : 10661993

Received Diagnosed

: 25 Sep 2023 : 27 Sep 2023 Diagnostician : Don Baldridge

Test Package : IND 2 (Additional Tests: KF) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: CORY GUMBERT cagumbert@marathonpetroleum.com

* - 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:

101 12TH ST

US 41169

CATLETTSBURG, KY

MARATHON PETROLEUM CO.