

OIL ANALYSIS REPORT

Galveston Bay [Galveston Bay] Oil - Port Genset Component

Port Genset

DIESEL ENGINE OIL SAE 15W40 (8 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Top Up Amount: .5 GAL)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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.

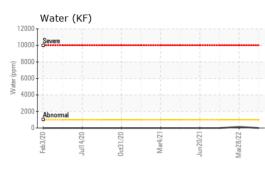
Sample Rating Trend

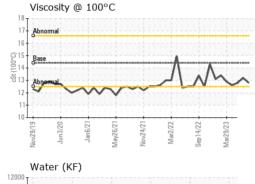
		v2019 Jun20		Nov2021 Mar2022 Sep2022 1	Mar2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0735312	WC0805198	WC0769424
Sample Date		Client Info		08 Nov 2023	11 Oct 2023	20 Jun 2023
Machine Age	hrs	Client Info		14445	14126	12936
Oil Age	hrs	Client Info		6435	9	4926
Oil Changed		Client Info		Oil Added	N/A	Filtered
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	24	27	24
Chromium	ppm	ASTM D5185m	>4	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>5	0	0	<1
Aluminum	ppm	ASTM D5185m	>12	1	2	0
Lead	ppm	ASTM D5185m	>17	0	<1	2
Copper	ppm	ASTM D5185m	>70	4	5	7
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	25	32	30
Barium	ppm	ASTM D5185m	10	0	0	4
Molybdenum	ppm	ASTM D5185m	100	33	39	39
Manganese	ppm	ASTM D5185m		<1	0	1
Magnesium	ppm	ASTM D5185m	450	971	1028	1147
Calcium	ppm	ASTM D5185m	3000	1303	1408	1454
Phosphorus	ppm	ASTM D5185m	1150	819	978	927
Zinc	ppm	ASTM D5185m	1350	1073	1182	1175
Sulfur	ppm	ASTM D5185m	4250	2870	4109	3706
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	10	4
Sodium	ppm	ASTM D5185m	>158	14	12	13
Potassium	ppm	ASTM D5185m	>20	2	5	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	12.6	11.9	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	23.1	22.8
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.6	22.8	22.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.44	8.68	9.38

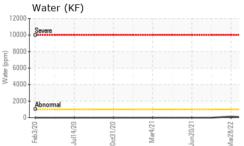
NORMAL



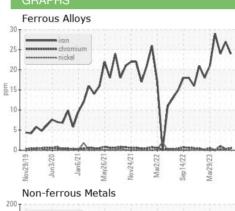
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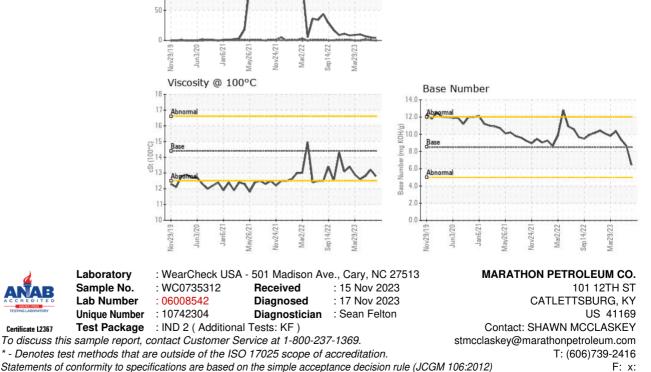


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPER	TIFS	method	limit/base	current	history1	history2
					,	,
Visc @ 100°C	cSt	ASTM D445	14.4	12.8	13.2	12.8
GRAPHS						



150

튭 100



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

Submitted By: M/V GALVESTON BAY

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