

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area Detroit [Detroit] Oil - Starboard Genset Component

Starboard Genset Fluid MOBIL 15W40 (35 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

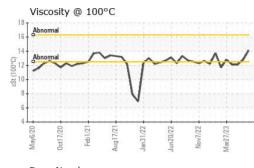
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

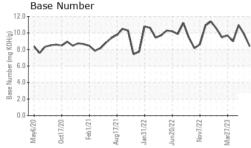


		y2020 Oct20;	-		Mar2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0769391	WC0735824	WC0731951
Sample Date		Client Info		17 Jul 2023	19 Jun 2023	22 May 2023
Machine Age	hrs	Client Info		6237	5974	0
Oil Age	hrs	Client Info		1	636	0
Oil Changed		Client Info		Diff Oil	Not Changd	N/A
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINATION	N	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	>25	2	11	4
Chromium	ppm	ASTM D5185m	>5	<1	0	0
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m		3	0	5
Lead	ppm	ASTM D5185m	>10	<1	<1	0
Copper	ppm	ASTM D5185m	>20	<1	1	0
Tin	ppm	ASTM D5185m	>5	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		102	113	174
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		24	41	50
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		263	441	596
Calcium	ppm	ASTM D5185m		2336	2092	1727
Phosphorus	ppm	ASTM D5185m		455	767	941
Zinc	ppm	ASTM D5185m		554	952	1145
Sulfur	ppm	ASTM D5185m		4152	3926	3862
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	3	2
Sodium	ppm	ASTM D5185m	>118	0	0	2
Potassium	ppm	ASTM D5185m	>20	2	3	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.7	9.0	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	22.0	20.9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	19.1	16.8
Base Number (BN)	mg KOH/g	ASTM D2896		8.39	9.85	10.95



OIL ANALYSIS REPORT



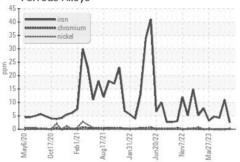


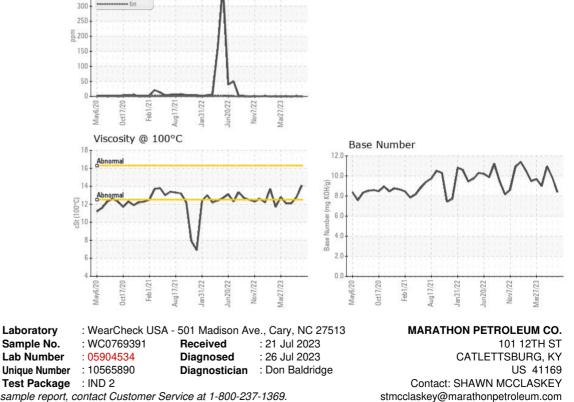
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		14.1	12.8	▲ 12.1
GRAPHS						

Ferrous Alloys

Non-ferrous Metals

400 350





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)

Certificate L2367

F: x:

T: (606)739-2416