



OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>SEVERE</b>
FLUID CONDITION	<b>ABNORMAL</b>

Machine Id  
**F/V ARCTIC FURY (S/N 37259081)**  
 Component  
**Starboard Genset**  
 Fluid  
**MOBIL DELVAC MX 15W40 (--- QTS)**

**RECOMMENDATION**

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PE0001373</b>	PE0001379	PE0001203
Sample Date		Client Info		<b>19 May 2024</b>	26 Sep 2023	29 Aug 2023
Machine Age	hrs	Client Info		<b>13966</b>	13513	13183
Oil Age	hrs	Client Info		<b>582</b>	250	1000
Filter Age	hrs	Client Info		<b>582</b>	250	1000
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>SEVERE</b>	NORMAL	NORMAL

**WEAR**

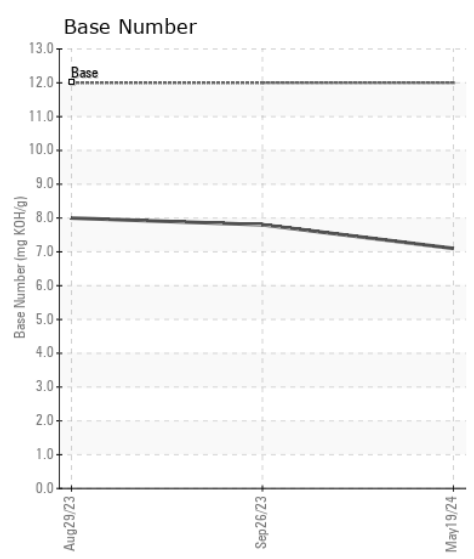
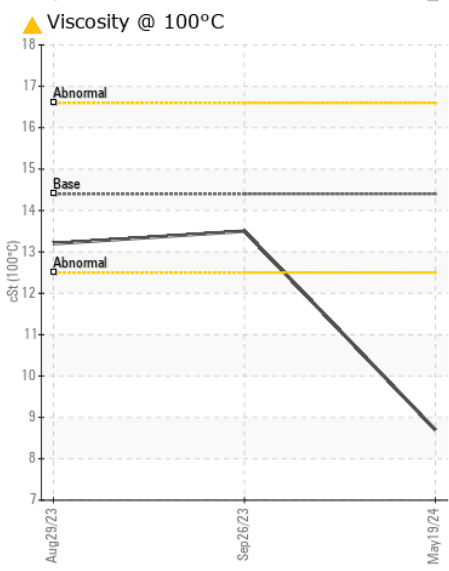
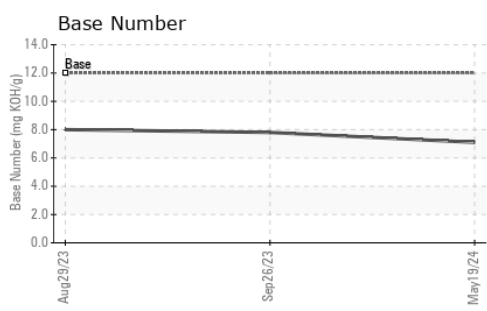
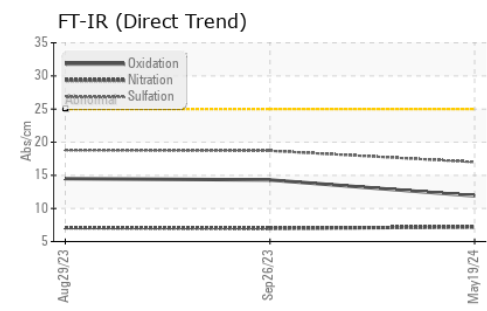
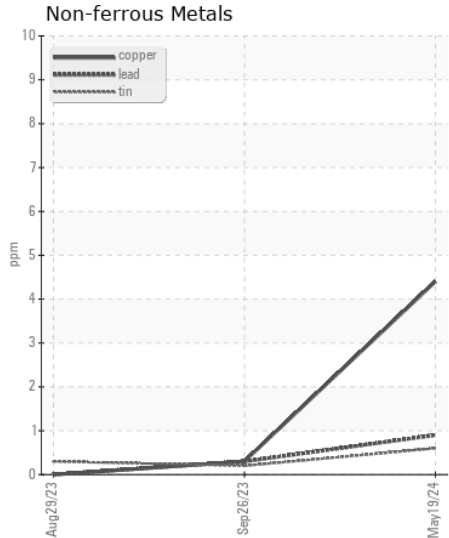
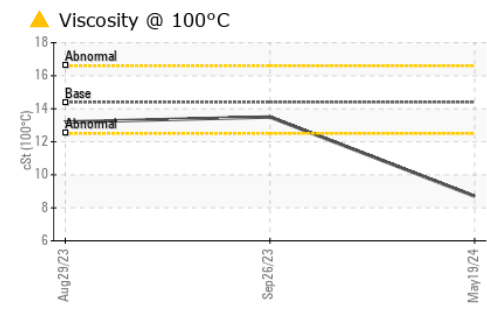
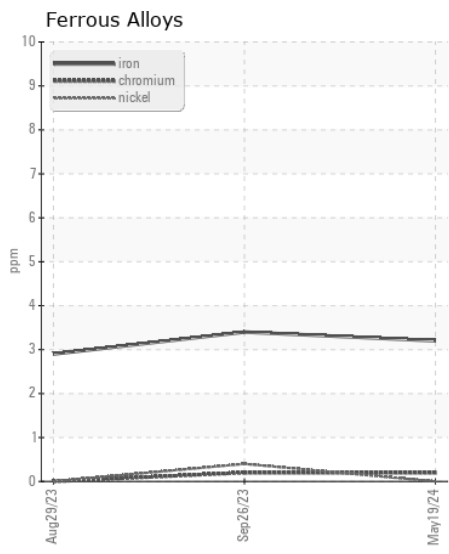
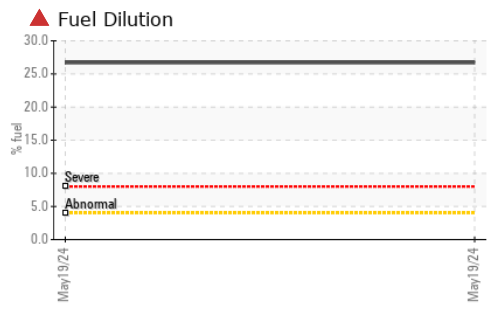
Iron	ppm	ASTM D5185m	>50	<b>3</b>	3	3
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m	>12	<b>&lt;1</b>	2	<1
Lead	ppm	ASTM D5185m	>17	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>70	<b>4</b>	<1	0
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	5	5
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	13	3
Fuel	%	ASTM D3524	>4.0	<b>▲ 26.7</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.1</b>	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.2</b>	7.0	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.0</b>	18.7	18.8
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

Sodium	ppm	ASTM D5185m		<b>2</b>	1	2
Boron	ppm	ASTM D5185m		<b>76</b>	123	127
Barium	ppm	ASTM D5185m		<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m		<b>5</b>	10	10
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>171</b>	371	426
Calcium	ppm	ASTM D5185m		<b>1595</b>	1715	1715
Phosphorus	ppm	ASTM D5185m		<b>709</b>	865	802
Zinc	ppm	ASTM D5185m		<b>767</b>	994	927
Sulfur	ppm	ASTM D5185m		<b>2832</b>	3688	3537
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>11.9</b>	14.3	14.5
Base Number (BN)	mg KOH/g	ASTM D2896	12	<b>7.1</b>	7.8	8.0
Visc @ 100°C	cSt	ASTM D445	14.4	<b>▲ 8.7</b>	13.5	13.2



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PE0001373  
**Lab Number** : 06194866  
**Unique Number** : 11056989  
**Test Package** : CONST ( Additional Tests: FT-IR, FuelDilution, ICP, KV100, PercentFuel, SCREEN, etc)

**THE FURY GROUP**  
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Certificate L2367  
 Received : 29 May 2024  
 Tested : 31 May 2024  
 Diagnosed : 31 May 2024 - Don Baldrige  
 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)