



# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**THE DISCO TECH (S/N 2071169356)**  
 Component  
**Starboard Main Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (6 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0839380</b>	---	---
Sample Date	Client Info			<b>22 May 2024</b>	---	---
Machine Age	hrs	Client Info		<b>1099</b>	---	---
Oil Age	hrs	Client Info		<b>200</b>	---	---
Oil Changed	Client Info			<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>4.0		<b>&lt;1.0</b>	---	---
Water	WC Method	>0.1		<b>NEG</b>	---	---
Glycol	WC Method			<b>NEG</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	<b>24</b>	---	---
Chromium	ppm	ASTM D5185m	>8	<b>2</b>	---	---
Nickel	ppm	ASTM D5185m	>2	<b>5</b>	---	---
Titanium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m	>15	<b>2</b>	---	---
Lead	ppm	ASTM D5185m	>18	<b>7</b>	---	---
Copper	ppm	ASTM D5185m	>80	<b>37</b>	---	---
Tin	ppm	ASTM D5185m	>14	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	<b>107</b>	---	---
Barium	ppm	ASTM D5185m	10	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	100	<b>6</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m	450	<b>77</b>	---	---
Calcium	ppm	ASTM D5185m	3000	<b>2153</b>	---	---
Phosphorus	ppm	ASTM D5185m	1150	<b>916</b>	---	---
Zinc	ppm	ASTM D5185m	1350	<b>1103</b>	---	---
Sulfur	ppm	ASTM D5185m	4250	<b>3474</b>	---	---

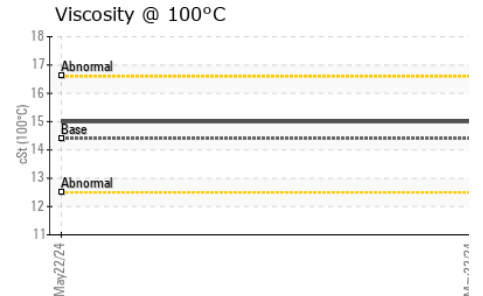
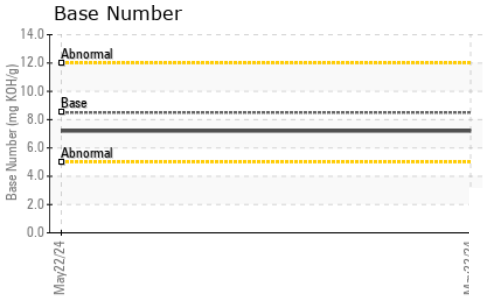
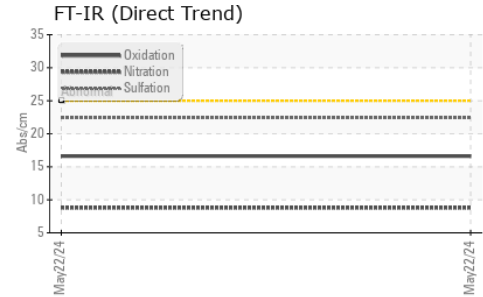
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>4</b>	---	---
Sodium	ppm	ASTM D5185m	>158	<b>3</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		<b>1.4</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.8</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.4</b>	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.6</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>7.2</b>	---	---



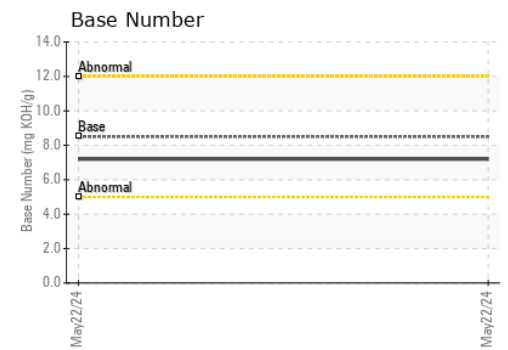
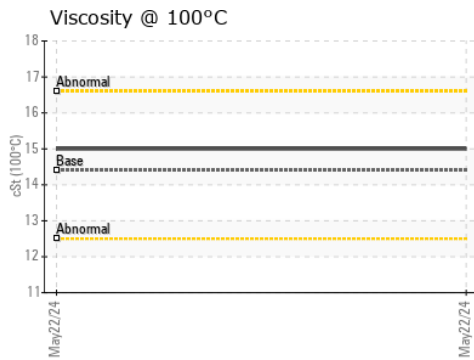
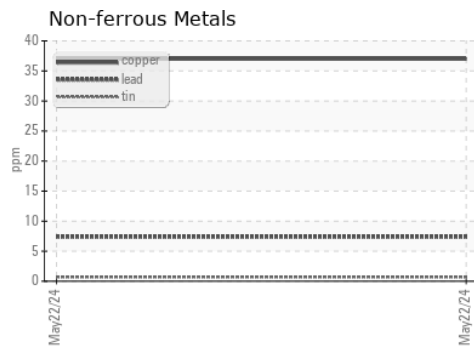
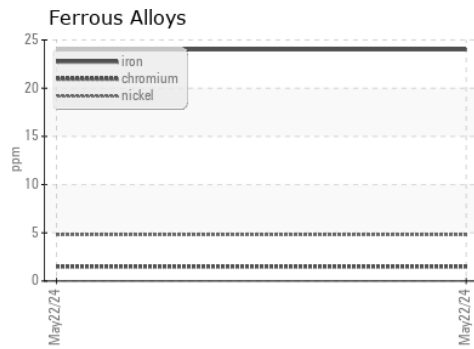
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	14.4	15.0	---	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0839380      **Received** : 30 May 2024  
**Lab Number** : 06196144      **Tested** : 31 May 2024  
**Unique Number** : 11058267      **Diagnosed** : 02 Jun 2024 - Don Baldrige  
**Test Package** : MAR 2

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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)