

## **OIL ANALYSIS REPORT**

# Area STILL WATERS VOLVO PENTA 2071116806 (S/N 2071116807)

Starboard Main Engine

Fluid DIESEL ENGINE OIL SAE 15W40 (7 GAL)

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

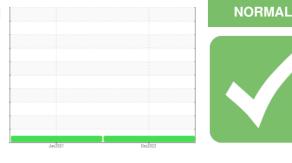
All component wear rates are normal.

#### 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 Rating Trend



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0782565	VPA031626	
Sample Date		Client Info		27 Dec 2022	11 Jan 2021	
Machine Age	hrs	Client Info		826	794	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	
Water		WC Method	>0.1	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	6	35	
Chromium	ppm	ASTM D5185m	>8	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	2	
Titanium	ppm	ASTM D5185m	>3	<1	0	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m	>15	1	0	
Lead	ppm	ASTM D5185m	>18	5	2	
Copper	ppm	ASTM D5185m	>80	8	13	
Tin	ppm	ASTM D5185m	>14	0	<1	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	181	5	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	6	50	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	450	94	759	
Calcium	ppm	ASTM D5185m	3000	2394	1114	
Phosphorus	ppm	ASTM D5185m	1150	1073	947	
Zinc	ppm	ASTM D5185m	1350	1334	1072	
Sulfur	ppm	ASTM D5185m	4250	4504	2558	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3	4	
Sodium	ppm	ASTM D5185m	>158	4	4	
Potassium	ppm	ASTM D5185m	>20	6	1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	6.3	6.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	19.6	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	14.4	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.8		

Contact/Location: JEFF COLEMAN - JEFCLE



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