## **OIL ANALYSIS REPORT**

#### RICHARD CANNY 506239 VOLVO PENTA A 186556 - STARBOARD DIESEL ENGINE

Sample No: VPA053679

**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

ample Number		VPA053679	VPA042456	VPA028521	
ample Date		08 May 2024	15 Feb 2023	24 Feb 2022	
Aachine Hours		408	372	307	
Dil Hours		0	0	0	
Dil Changed		Changed	Changed	Changed	
ample Status		ABNORMAL	ABNORMAL	NORMAL	
OIL CONDITION					
′isc @ 100°C	cSt	<b>13.5</b>	14.5	13.4	
ase Number (BN)	mg KOH/g	9.9	9.9	8.9	
Dxidation (PA)	%	56	57	51	
CONTAMINATION					
Vater	%	NEG	NEG	NEG	
oot %	%	0.7	1.7	0.5	
litration (PA)	%	52	70	48	
ulfation (PA)	%	54	63	48	
ilycol	%	NEG	NEG	NEG	
uel	%	<1.0	< 1.0	<1.0	
ilicon	ppm	<b>10</b>	16	8	
odium	ppm	<b>1</b>	5	3	
otassium	ppm	3	6	<b></b> <1	
WEAR METALS					
ron	ppm	<b>A</b> 221	<b>3</b> 07	65	
opper	ppm	<b>1</b> 3	36	11	
ad	ppm	<b>1</b>	3	2	
n	ppm	<b>  </b> <1	3	2	
uminum	ppm	9	45	<b>1</b> 5	
hromium	ppm	<b>4</b> 16	<u> </u>	5	
lolybdenum	ppm	65	59	57	
lickel	ppm	3	6	1	
itanium	ppm	0	<b></b> <1	<b></b> <1	
ilver	ppm	0	<1	<b></b> <1	
langanese	ppm	∎1	3	<b></b> <1	
anadium	ppm	0	0	<1	
ADDITIVES					
Calcium	ppm	1244	1063	1033	
lagnesium	ppm	<b>1009</b>	949	939	
inc	ppm	1344	1226	1113	
hosphorus	ppm	<b>1120</b>	1087	997	
arium	ppm	0	0	0	
oron		<b>4</b>	34	12	

### fferson Beach Yacht Sales Inc

400 Jefferson Ave. AINT CLAIR SHORES, MI S 48080 ontact: DENNIS BUTT outt@jbys.com (866)490-5297

### iagnosis

he oil change at the time of ampling has been noted. We ecommend an early resample to nonitor this condition.Chromium and on ppm levels are abnormal. There no indication of any contamination n the oil. The BN result indicates that here is suitable alkalinity remaining n the oil.

Don Baldridge Signed: Report Date: 13 May 2024 Contact/Location: DENNIS BUTT - VP297371

VP297371

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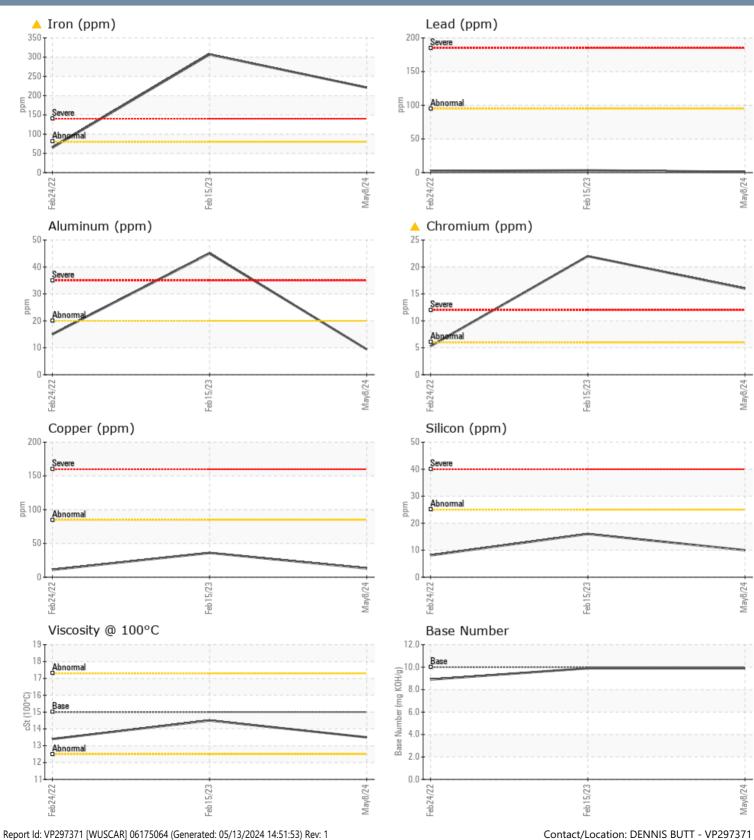
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Contact/Location: DENNIS BUTT - VP297371