## **OIL ANALYSIS REPORT**

## DELL DAHL GREG ELLIS VOLVO PENTA 2004016195 - STARBOARD DIESEL ENGINE

Sample No: VPA051668

Oil Type: VOLVO PENTA SAE 15W40

#### SAMPLE INFORMATION

Sample Number		VPA051668	VPA042035	 
Sample Date		01 May 2024	23 May 2023	 
Machine Hours		590	562	 
Oil Hours		10	100	 
Oil Changed		Changed	N/A	 
Sample Status		NORMAL	NORMAL	 
OIL CONDITION				
Visc @ 100°C	cSt	<b>13.4</b>	13.9	 
Base Number (BN)	mg KOH/g	<b>10.0</b>	9.4	 
Oxidation (PA)	%	55	73	 
CONTRAMINATION				
CONTAMINATION				
Water	%	NEG	NEG	 
Soot %	%	0.1	0.3	 
Nitration (PA)	%	42	82	 
Sulfation (PA)	%	51	61	 
Glycol	%	NEG	NEG	 
Fuel	%	<1.0	<1.0	 
Silicon	ppm	<b>4</b>	10	 
Sodium	ppm	0	6	 
Potassium	ppm	<b>  </b> <1	1	 
WEAR METALS				
Iron	ppm	6	59	 
Copper	ppm	0	13	 
Lead	ppm	0	7	 
Tin	ppm	<b>  </b> <1	2	 
Aluminum	ppm	8	34	 
Chromium	ppm		4	 
Molybdenum	ppm	56	55	 
Nickel	ppm	0	4	 
Titanium	ppm	0	1	 
Silver	ppm	0	<b></b> <1	 
Manganese	ppm	<b>  </b> <1	1	 
Vanadium	ppm	0	<1	 
ADDITIVES				
Calcium	ppm	<b>1015</b>	1262	 
Magnesium	ppm	939	891	 
Zinc	ppm	1195	1252	 
Phosphorus	ppm	1003	1028	 
Barium	ppm		0	 
Boron	ppm	<b>□</b> <1	2	 
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### Galati Yacht Sales LLC

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#### Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

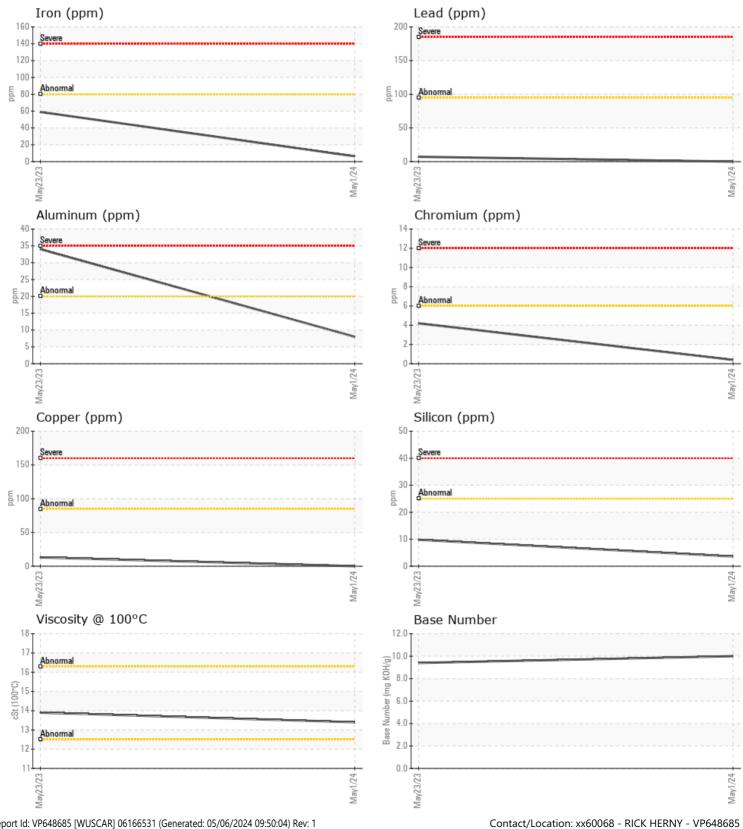
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VP648685 11007250 Jonathan Hester 06 May 2024

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#### GRAPHS



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