

# OIL ANALYSIS REPORT



## MEYER 1013926607 - PORT DIESEL ENGINE

**Sample No:** VPA036320  
**Oil Type:** MOBIL DELVAC 1300 SUPER15W40

### SAMPLE INFORMATION

Sample Number	<b>VPA036320</b>	VPA036321	VPA046086	VPA046175
Sample Date	<b>27 Mar 2024</b>	12 Jan 2024	25 Oct 2023	11 Aug 2023
Machine Hours	<b>7846</b>	7322	6723	6253
Oil Hours	<b>500</b>	569	500	596
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### VIRGINIA PILOT ASSOCIATION

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.5</b>	12.8	12.7	12.6
Base Number (BN)	mg KOH/g	<b>8.7</b>	8.1	8.3	7.7
Oxidation (PA)	%	<b>91</b>	93	92	88

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.4</b>	0.4	0.4	0.4
Nitration (PA)	%	<b>71</b>	74	73	71
Sulfation (PA)	%	<b>65</b>	69	71	69
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	5	6	4
Sodium	ppm	<b>2</b>	2	3	0
Potassium	ppm	<b>1</b>	0	<1	0

### 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 acceptable for the time in service.

### WEAR METALS

Iron	ppm	<b>9</b>	10	18	17
Copper	ppm	<b>1</b>	1	1	0
Lead	ppm	<b>2</b>	1	<1	0
Tin	ppm	<b>1</b>	<1	1	0
Aluminum	ppm	<b>2</b>	2	1	1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>44</b>	40	46	39
Nickel	ppm	<b>&lt;1</b>	0	<1	0
Titanium	ppm	<b>&lt;1</b>	0	<1	0
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	0
Vanadium	ppm	<b>&lt;1</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1747</b>	1639	1701	1807
Magnesium	ppm	<b>510</b>	523	518	557
Zinc	ppm	<b>926</b>	916	897	989
Phosphorus	ppm	<b>755</b>	686	770	776
Barium	ppm	<b>0</b>	0	19	0
Boron	ppm	<b>34</b>	34	30	25

**Depot:** VPVIRVIR  
**Unique No:** 10951184  
**Signed:** Don Baldrige  
**Report Date:** 02 Apr 2024

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# VOLVO PENTA

## GRAPHS

