

# OIL ANALYSIS REPORT



## MEYER 1013720600 - PORT DIESEL ENGINE

**Sample No:** VPA053661  
**Oil Type:** MOBIL DELVAC 1300 SUPER15W40

### SAMPLE INFORMATION

Sample Number	<b>VPA053661</b>	VPA051974	VPA046646	VPA028079
Sample Date	<b>09 May 2024</b>	13 Sep 2023	19 Jun 2023	28 Sep 2022
Machine Hours	<b>6625</b>	8724	8194	7106
Oil Hours	<b>537</b>	500	582	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	ATTENTION	NORMAL	NORMAL

### VIRGINIA PILOT ASSOCIATION

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.3</b>	12.4	13.0	13.0
Base Number (BN)	mg KOH/g	<b>8.0</b>	7.8	7.8	9.1
Oxidation (PA)	%	<b>80</b>	86	98	94

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.4</b>	0.6	0.8	0.7
Nitration (PA)	%	<b>76</b>	69	83	86
Sulfation (PA)	%	<b>67</b>	68	75	76
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	0.9	<1.0	<1.0
Silicon	ppm	<b>6</b>	4	5	7
Sodium	ppm	<b>0</b>	3	4	6
Potassium	ppm	<b>4</b>	0	4	29

### WEAR METALS

Iron	ppm	<b>23</b>	12	29	17
Copper	ppm	<b>3</b>	0	2	4
Lead	ppm	<b>3</b>	<1	5	6
Tin	ppm	<b>2</b>	0	<1	1
Aluminum	ppm	<b>2</b>	0	<1	13
Chromium	ppm	<b>&lt;1</b>	<1	1	0
Molybdenum	ppm	<b>63</b>	40	41	37
Nickel	ppm	<b>&lt;1</b>	0	1	1
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	1
Vanadium	ppm	<b>&lt;1</b>	0	0	2

### ADDITIVES

Calcium	ppm	<b>1325</b>	1736	1725	1589
Magnesium	ppm	<b>858</b>	521	503	505
Zinc	ppm	<b>1181</b>	889	932	850
Phosphorus	ppm	<b>1041</b>	646	722	714
Barium	ppm	<b>2</b>	0	0	0
Boron	ppm	<b>19</b>	23	32	18

### 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.

**Depot:** VPVIRVIR  
**Unique No:** 11022865  
**Signed:** Sean Felton  
**Report Date:** 14 May 2024

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# VOLVO PENTA

## GRAPHS

