

OIL ANALYSIS REPORT



MEYER 1013926607 - PORT DIESEL ENGINE

Sample No: VPA046086
Oil Type: MOBIL DELVAC 1300 SUPER15W40

SAMPLE INFORMATION

Sample Number	VPA046086	VPA046175	VPA040678	VPA039588
Sample Date	25 Oct 2023	11 Aug 2023	25 Apr 2023	24 Jan 2023
Machine Hours	6723	6253	5657	5167
Oil Hours	500	596	500	512
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VIRGINIA PILOT ASSOCIATION

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.6	12.7	12.9
Base Number (BN)	mg KOH/g	8.3	7.7	8.0	8.4
Oxidation (PA)	%	92	88	93	93

CONTAMINATION

Soot %	%	0.4	0.4	0.4	0.4
Nitration (PA)	%	73	71	74	75
Sulfation (PA)	%	71	69	71	73
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	4	5	7
Sodium	ppm	3	0	3	0
Potassium	ppm	<1	0	0	3

WEAR METALS

Iron	ppm	18	17	13	12
Copper	ppm	1	0	<1	<1
Lead	ppm	<1	0	0	2
Tin	ppm	1	0	<1	<1
Aluminum	ppm	1	1	1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	46	39	43	45
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	0	1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1701	1807	1627	1756
Magnesium	ppm	518	557	535	499
Zinc	ppm	897	989	934	922
Phosphorus	ppm	770	776	728	747
Barium	ppm	19	0	0	1
Boron	ppm	30	25	33	43

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: 10716172
Signed: Sean Felton
Report Date: 01 Nov 2023

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VOLVO PENTA

GRAPHS

