

OIL ANALYSIS REPORT

VOLVO PENTA

MIKE VOLVO PENTA 1013941429 - PORT DIESEL ENGINE

Sample No: VPA051779

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA051779	VPA048141	VPA034161	VPA034124
Sample Date	29 Aug 2023	28 Jun 2023	08 Mar 2023	14 Oct 2022
Machine Hours	4821	4371	3823	3520
Oil Hours	980	519	874	558
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL

NEWT MARINE

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.6	█ 12.7	▲ 12.1	█ 12.8
Base Number (BN)	mg KOH/g	█ 9.1	█ 9.0	█ 9.2	█ 9.4
Oxidation (PA)	%	█ 61	█ 65	█ 63	█ 67

CONTAMINATION

Soot %	%	█ 0.3	█ 0.2	█ 0.3	█ 0.3
Nitration (PA)	%	█ 72	█ 56	█ 68	█ 67
Sulfation (PA)	%	█ 58	█ 57	█ 58	█ 63
Glycol	%	█ NEG	█ NEG	█ NEG	█ NEG
Fuel	%	█ <1.0	█ <1.0	▲ 3.8	█ <1.0
Silicon	ppm	█ 18	█ 3	█ 5	█ 4
Sodium	ppm	█ 1	█ 0	█ 2	█ <1
Potassium	ppm	█ <1	█ 2	█ 2	█ 0

WEAR METALS

Iron	ppm	█ 7	█ 5	█ 9	█ 7
Copper	ppm	█ 1	█ <1	█ 1	█ <1
Lead	ppm	█ <1	█ <1	█ <1	█ 0
Tin	ppm	█ <1	█ <1	█ <1	█ <1
Aluminum	ppm	█ 0	█ 2	█ <1	█ <1
Chromium	ppm	█ <1	█ 0	█ <1	█ 0
Molybdenum	ppm	█ 62	█ 62	█ 60	█ 62
Nickel	ppm	█ 0	█ 0	█ 0	█ 0
Titanium	ppm	█ 0	█ 0	█ <1	█ 0
Silver	ppm	█ 0	█ 0	█ 0	█ 0
Manganese	ppm	█ <1	█ 0	█ 1	█ <1
Vanadium	ppm	█ <1	█ 0	█ <1	█ 0

ADDITIVES

Calcium	ppm	█ 1076	█ 1047	█ 1106	█ 1092
Magnesium	ppm	█ 1014	█ 899	█ 984	█ 954
Zinc	ppm	█ 1283	█ 1193	█ 1325	█ 1205
Phosphorus	ppm	█ 1005	█ 1011	█ 989	█ 1034
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 0	█ 0	█ 1	█ <1

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.

Depot: VP99298099
Unique No: 10673369
Signed: Don Baldrige
Report Date: 04 Oct 2023

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GRAPHS

