

OIL ANALYSIS REPORT



SURVEY 40 PC J FLAHERTY VOLVO 2006006750 - PORT DIESEL ENGINE

Sample No: VPA024810
Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA024810	---	---	---
Sample Date	06 Dec 2018	---	---	---
Machine Hours	665	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

TOTAL MARINE OF MARYLAND INC
 106 WELLS COVE ROAD SUITE 2
 GRASONVILLE, MD
 US 21638
 Contact: JAMIE FLAHERTY
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 F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.71	---	---	---
Oxidation (PA)	%	66	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	63	---	---	---
Sulfation (PA)	%	55	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 2	---	---	---

Diagnosis

No corrective action is recommended at this time. 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 condition of the oil is acceptable for the time in service.

WEAR METALS

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

ADDITIVES

Calcium	ppm	█ 1065	---	---	---
Magnesium	ppm	█ 973	---	---	---
Zinc	ppm	█ 1165	---	---	---
Phosphorus	ppm	█ 986	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 4	---	---	---

Depot: VP1130693
Unique No: 8421637
Signed: Doug Bogart
Report Date: 10 Dec 2018

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VOLVO PENTA

GRAPHS

