

OIL ANALYSIS REPORT

VOLVO PENTA

1640 VOLVO PENTA 7011414165 - STARBOARD DIESEL ENGINE

Sample No: VPA044361

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA044361	---	---	---
Sample Date	14 Jul 2023	---	---	---
Machine Hours	607	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

SMART DIESEL SERVICE

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F:

OIL CONDITION

Visc @ 100°C	cSt	12.35	---	---	---
Oxidation (PA)	%	62	---	---	---

CONTAMINATION

Soot %	%	0.4	---	---	---
Nitration (PA)	%	63	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	1.7	---	---	---
Silicon	ppm	7	---	---	---
Sodium	ppm	<1	---	---	---
Potassium	ppm	<1	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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	16	---	---	---
Copper	ppm	41	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	<1	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	61	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	1111	---	---	---
Magnesium	ppm	1010	---	---	---
Zinc	ppm	1284	---	---	---
Phosphorus	ppm	1044	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	0	---	---	---

Depot: VPSMAPLA
Unique No: 10561745
Signed: Doug Bogart
Report Date: 17 Jul 2023

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GRAPHS

