

OIL ANALYSIS REPORT



19624 2006035406 - STARBOARD MAIN ENGINE

Sample No: VPA056513
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA056513	---	---	---
Sample Date	04 Mar 2024	---	---	---
Machine Hours	19	---	---	---
Oil Hours	100	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

Sea Power Ltd
 2077 Amelia Ave
 SIDNEY, BC
 CA V8L 3Z8
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	---	---	---
Oxidation (PA)	%	82	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0	---	---	---
Nitration (PA)	%	53	---	---	---
Sulfation (PA)	%	62	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ < 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 condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	█ 8	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 5	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 41	---	---	---
Nickel	ppm	█ < 1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	█ 0	---	---	---

ADDITIVES

Calcium	ppm	█ 1565	---	---	---
Magnesium	ppm	540	---	---	---
Zinc	ppm	█ 885	---	---	---
Phosphorus	ppm	█ 777	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	50	---	---	---

Depot: VP154139
Unique No: 5737177
Signed: Kevin Marson
Report Date: 06 Mar 2024

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VOLVO PENTA

GRAPHS

