

OIL ANALYSIS REPORT



MILES TO GO 3703 **ZB539495 - STARBOARD GASOLINE ENGINE**

Sample No: VPA052473
Oil Type: QUICKSILVER 25W40

SAMPLE INFORMATION

Sample Number	VPA052473	VPA030056	---	---
Sample Date	12 Jan 2024	12 Dec 2019	---	---
Machine Hours	110	0	---	---
Oil Hours	50	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	ABNORMAL	ATTENTION	---	---

OIL CONDITION

Visc @ 100°C	cSt	10.4	9.95	---	---
Base Number (BN)	mg KOH/g	7.7	---	---	---
Oxidation (PA)	%	12	13	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	7	8	---	---
Sulfation (PA)	%	10	11	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	13	63	---	---
Sodium	ppm	2	6	---	---
Potassium	ppm	4	0	---	---

WEAR METALS

Iron	ppm	9	14	---	---
Copper	ppm	238	335	---	---
Lead	ppm	2	2	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	<1	6	---	---
Chromium	ppm	0	<1	---	---
Molybdenum	ppm	48	48	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1950	1990	---	---
Magnesium	ppm	8	14	---	---
Zinc	ppm	823	725	---	---
Phosphorus	ppm	740	642	---	---
Barium	ppm	0	8	---	---
Boron	ppm	196	146	---	---

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Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. 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: VP592286
Unique No: 10884394
Signed: Sean Felton
Report Date: 19 Feb 2024

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VOLVO PENTA

GRAPHS

