

OIL ANALYSIS REPORT

VOLVO PENTA

AUTO WORLD 354004 MAN 66029118012920 - STARBOARD DIESEL ENGINE

Sample No: VPA052262

Oil Type: CHEVRON DELO 400 SYNTHETIC 5W40

SAMPLE INFORMATION

Sample Number	VPA052262	---	---	---
Sample Date	30 Jan 2024	---	---	---
Machine Hours	776	---	---	---
Oil Hours	64	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	---	---	---
Base Number (BN)	mg KOH/g	█ 6.2	---	---	---
Oxidation (PA)	%	172	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	61	---	---	---
Sulfation (PA)	%	102	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ < 1	---	---	---
Potassium	ppm	█ 4	---	---	---

WEAR METALS

Iron	ppm	█ 15	---	---	---
Copper	ppm	█ 16	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 44	---	---	---
Nickel	ppm	█ < 1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 958	---	---	---
Magnesium	ppm	█ 942	---	---	---
Zinc	ppm	█ 1311	---	---	---
Phosphorus	ppm	█ 1088	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 109	---	---	---

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T:

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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: VP494046

Unique No: 10860012

Signed: Don Baldrige

Report Date: 05 Feb 2024

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GRAPHS

