

OIL ANALYSIS REPORT

VOLVO PENTA

MATT SHAEFER 53968 CUMMINS K180445470 - GENSET

Sample No: VPA047074

Oil Type: CHEVRON DELO 400 SAE 30

SAMPLE INFORMATION

Sample Number	VPA047074	---	---	---
Sample Date	24 Apr 2024	---	---	---
Machine Hours	206	---	---	---
Oil Hours	70	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

Kozwel Boatworks, Inc.

2601 S. Yale St.
SANTA ANA, CA
US 92704
Contact: KELLI W
kelliw@kozwel.com
T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	---	---	---
Base Number (BN)	mg KOH/g	█ 9.0	---	---	---
Oxidation (PA)	%	82	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	81	---	---	---
Sulfation (PA)	%	59	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	● 42	---	---	---
Sodium	ppm	█ 6	---	---	---
Potassium	ppm	█ 1	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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.

WEAR METALS

Iron	ppm	█ 33	---	---	---
Copper	ppm	█ 17	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 7	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 61	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 3	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 2098	---	---	---
Magnesium	ppm	█ 687	---	---	---
Zinc	ppm	█ 1398	---	---	---
Phosphorus	ppm	█ 1163	---	---	---
Barium	ppm	█ 4	---	---	---
Boron	ppm	█ 53	---	---	---

Depot: VP491768
Unique No: 11002967
Signed: Don Baldrige
Report Date: 30 Apr 2024

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GRAPHS

