



CONSTRUCTION EQUIPMENT

X59741 ELGIN PELICAN NP42773 - DIESEL ENGINE



Sample No: VCP437267
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X59741



SAMPLE INFORMATION

Sample Number	VCP437267	---	---	---
Sample Date	13 Jun 2024	---	---	---
Machine Hours	548	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 8.8	---	---	---
Base Number (BN)	mg KOH/g	■ 8.2	---	---	---
Oxidation (PA)	%	71	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Metal levels are typical for a new component breaking in. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.3	---	---	---
Nitration (PA)	%	77	---	---	---
Sulfation (PA)	%	62	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 5.5	---	---	---
Silicon	ppm	■ 11	---	---	---
Sodium	ppm	■ 5	---	---	---
Potassium	ppm	■ 3	---	---	---



WEAR METALS

Iron	ppm	■ 54	---	---	---
Copper	ppm	■ 76	---	---	---
Lead	ppm	■ 10	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 9	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	285	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	■ 5	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 1499	---	---	---
Magnesium	ppm	881	---	---	---
Zinc	ppm	■ 1184	---	---	---
Phosphorus	ppm	■ 962	---	---	---
Barium	ppm	■ 6	---	---	---
Boron	ppm	234	---	---	---

Depot: SCOSAI
Unique No: 11085927
Signed: Wes Davis
Report Date: 20 Jun 2024



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GRAPHS

