



CONSTRUCTION EQUIPMENT

PETERSON 6170D 32D-41-2619 - DIESEL ENGINE



Sample No: VCP436148
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP436148	VCP367582	VCP319029	---
Sample Date	18 Dec 2023	07 Jan 2023	05 Dec 2021	---
Machine Hours	0	2788	410	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.5	▲ 12.5	▲ 11.1	---
Base Number (BN)	mg KOH/g	■ 4.9	■ 5.2	■ 7.9	---
Oxidation (PA)	%	99	118	89	---

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. 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	NEG	NEG	---
Soot %	%	■ 0.6	■ 1.9	■ 0.4	---
Nitration (PA)	%	103	128	93	---
Sulfation (PA)	%	74	85	64	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	▲ 9.8	▲ 5.8	▲ 6.0	---
Silicon	ppm	■ 6	■ 13	■ 38	---
Sodium	ppm	■ 3	■ 4	■ 4	---
Potassium	ppm	■ 7	■ 8	■ 20	---



WEAR METALS

Iron	ppm	■ 45	▲ 116	■ 46	---
Copper	ppm	■ 7	■ 13	■ 315	---
Lead	ppm	■ 9	■ 23	■ 5	---
Tin	ppm	■ 1	■ 3	■ 6	---
Aluminum	ppm	■ 6	■ 14	■ 12	---
Chromium	ppm	■ 1	■ 3	■ 3	---
Molybdenum	ppm	■ 46	■ 62	■ 42	---
Nickel	ppm	■ <1	■ <1	■ 0	---
Titanium	ppm	0	<1	■ <1	---
Silver	ppm	■ 0	■ 0	■ <1	---
Manganese	ppm	■ <1	■ 2	■ 3	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	■ 1540	■ 1832	■ 1742	---
Magnesium	ppm	■ 467	■ 542	■ 518	---
Zinc	ppm	■ 1171	■ 1252	■ 1040	---
Phosphorus	ppm	■ 940	■ 931	■ 934	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 21	■ 5	■ 16	---

Depot: VOLVO0090
Unique No: 10795622
Signed: Wes Davis
Report Date: 22 Dec 2023



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GRAPHS

