



CONSTRUCTION EQUIPMENT

GAETA CUMMINS GAETA CUMMINS QSB 4.5 (S/N NOT GIVEN) - DIESEL ENGINE



Sample No: VCP401574
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: GAETA



SAMPLE INFORMATION

Sample Number	VCP401574	---	---	---
Sample Date	13 May 2023	---	---	---
Machine Hours	4780	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.2	---	---	---
Base Number (BN)	mg KOH/g	■ 5.9	---	---	---
Oxidation (PA)	%	■ 110	---	---	---

Diagnosis

We advise that you check the fuel injection system. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter 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. Elemental level of silicon (Si) above normal. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	■ 88	---	---	---
Sulfation (PA)	%	■ 69	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	▲ 3.4	---	---	---
Silicon	ppm	▲ 47	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 0	---	---	---



WEAR METALS

Iron	ppm	■ 19	---	---	---
Copper	ppm	■ 5	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 50	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	■ <1	---	---	---



ADDITIVES

Calcium	ppm	■ 1839	---	---	---
Magnesium	ppm	■ 517	---	---	---
Zinc	ppm	■ 1188	---	---	---
Phosphorus	ppm	■ 946	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 28	---	---	---

Depot: GRESOUNJ
Unique No: 10506281
Signed: Don Baldrige
Report Date: 08 Jun 2023



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GRAPHS

