



CONSTRUCTION EQUIPMENT

SWA230464 JACK DYKST VOLVO EC305CL 1 10686 - DIESEL ENGINE



Sample No: VCP405731
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA230464 JACK DYKST



SAMPLE INFORMATION

Sample Number	VCP405731	---	---	---
Sample Date	12 Apr 2023	---	---	---
Machine Hours	4370	---	---	---
Oil Hours	300	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.8	---	---	---
Base Number (BN)	mg KOH/g	■ 9.0	---	---	---
Oxidation (PA)	%	67	---	---	---

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. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	43	---	---	---
Sulfation (PA)	%	54	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.2	---	---	---
Silicon	ppm	▲ 29	---	---	---
Sodium	ppm	■ 6	---	---	---
Potassium	ppm	■ 11	---	---	---



WEAR METALS

Iron	ppm	■ 14	---	---	---
Copper	ppm	■ 5	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ 5	---	---	---
Molybdenum	ppm	■ 54	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 1573	---	---	---
Magnesium	ppm	■ 446	---	---	---
Zinc	ppm	■ 1071	---	---	---
Phosphorus	ppm	■ 893	---	---	---
Barium	ppm	■ 2	---	---	---
Boron	ppm	107	---	---	---

Depot: VOLVO0046
Unique No: 10428252
Signed: Jonathan Hester
Report Date: 20 Apr 2023



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GRAPHS

