



CONSTRUCTION EQUIPMENT

60873 DOOSAN P185 497071UKADG89 - DIESEL ENGINE



Sample No: VCP420617
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 60873



SAMPLE INFORMATION

Sample Number	VCP420617	VCP368139	---	---
Sample Date	08 Jan 2024	17 Nov 2022	---	---
Machine Hours	1622	1294	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Chngd	---	---
Sample Status	ABNORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	█ 13.8	---	---
Base Number (BN)	mg KOH/g	█ 9.5	█ 11.5	---	---
Oxidation (PA)	%	59	57	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.6	█ 1.2	---	---
Nitration (PA)	%	74	55	---	---
Sulfation (PA)	%	52	58	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	▲ 16	█ 3	---	---
Sodium	ppm	█ 2	█ 1	---	---
Potassium	ppm	█ 1	█ 2	---	---



WEAR METALS

Iron	ppm	█ 23	█ 14	---	---
Copper	ppm	█ 2	█ <1	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ 3	█ 1	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 62	█ 61	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ 0	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	█ 1086	█ 1068	---	---
Magnesium	ppm	█ 985	█ 933	---	---
Zinc	ppm	█ 1352	█ 1288	---	---
Phosphorus	ppm	█ 1013	█ 997	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 13	█ 6	---	---

Depot: VOLVO0016
Unique No: 10823694
Signed: Don Baldrige
Report Date: 12 Jan 2024



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GRAPHS

