



CONSTRUCTION EQUIPMENT

X58866 VOLVO EC250DL 210174 - DIESEL ENGINE



Sample No: VCP426013
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: X58866



SAMPLE INFORMATION

Sample Number	VCP426013	VCP384336	VCP384606	---
Sample Date	10 Nov 2023	06 Apr 2023	08 Dec 2022	---
Machine Hours	10110	9355	8857	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.8	13.7	13.5	---
Base Number (BN)	mg KOH/g	9.9	10.6	11.7	---
Oxidation (PA)	%	85	81	88	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Soot %	%	0.7	0.4	0.5	---
Nitration (PA)	%	72	64	68	---
Sulfation (PA)	%	65	63	69	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	7	8	4	---
Sodium	ppm	4	3	0	---
Potassium	ppm	8	10	2	---



WEAR METALS

Iron	ppm	33	15	14	---
Copper	ppm	2	0	1	---
Lead	ppm	<1	0	<1	---
Tin	ppm	<1	0	<1	---
Aluminum	ppm	5	3	6	---
Chromium	ppm	3	0	<1	---
Molybdenum	ppm	43	41	43	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1746	1819	1810	---
Magnesium	ppm	522	477	451	---
Zinc	ppm	1192	1181	1120	---
Phosphorus	ppm	962	942	929	---
Barium	ppm	0	0	0	---
Boron	ppm	25	51	42	---

Depot: SCOSAI
Unique No: 10743045
Signed: Wes Davis
Report Date: 16 Nov 2023



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GRAPHS

