



CONSTRUCTION EQUIPMENT

X58968 VOLVO EC250EL 316192 - DIESEL ENGINE



Sample No: VCP427305
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: X58968



SAMPLE INFORMATION

Sample Number	VCP427305	VCP413459	VCP379185	---
Sample Date	04 Dec 2023	06 Sep 2023	31 Aug 2022	---
Machine Hours	2468	2022	535	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.0	11.3	---
Base Number (BN)	mg KOH/g	10.3	10.0	7.6	---
Oxidation (PA)	%	82	80	64	---

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

Water	%	NEG	NEG	NEG	---
Soot %	%	0.2	0.2	0.1	---
Nitration (PA)	%	53	54	75	---
Sulfation (PA)	%	61	60	56	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.3	---
Silicon	ppm	3	6	17	---
Sodium	ppm	8	3	4	---
Potassium	ppm	<1	5	20	---



WEAR METALS

Iron	ppm	6	10	14	---
Copper	ppm	1	2	41	---
Lead	ppm	1	<1	<1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	1	2	6	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	54	43	79	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	<1	2	---
Manganese	ppm	<1	1	2	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1154	1838	2059	---
Magnesium	ppm	836	574	63	---
Zinc	ppm	1114	1270	1164	---
Phosphorus	ppm	913	999	944	---
Barium	ppm	0	0	2	---
Boron	ppm	10	30	47	---

Depot: SCOSAI
Unique No: 10777245
Signed: Wes Davis
Report Date: 08 Dec 2023



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GRAPHS

