



CONSTRUCTION EQUIPMENT

VOLVO EC250EL 310111 - DIESEL ENGINE



Sample No: VCP447496
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP447496	VCP433653	VCP416955	VCP339698
Sample Date	09 May 2024	22 Mar 2024	08 Feb 2024	05 Dec 2023
Machine Hours	6410	6235	6098	5899
Oil Hours	175	137	199	269
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	█ 13.3	█ 13.2	█ 13.2
Base Number (BN)	mg KOH/g	█ 9.4	█ 8.6	█ 7.9	█ 8.0
Oxidation (PA)	%	71	67	65	63

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	NEG
Soot %	%	█ 0.1	█ 0.1	█ 0.1	█ 0.1
Nitration (PA)	%	48	54	58	62
Sulfation (PA)	%	56	54	52	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	█ 6	█ 6	█ 8	█ 5
Sodium	ppm	█ 2	█ 3	█ 4	█ <1
Potassium	ppm	█ 4	█ 2	█ 2	█ 2

WEAR METALS

Iron	ppm	█ 2	█ 2	█ 3	█ 3
Copper	ppm	█ 1	█ <1	█ <1	█ <1
Lead	ppm	█ <1	█ 0	█ <1	█ <1
Tin	ppm	█ <1	█ <1	█ <1	█ <1
Aluminum	ppm	█ 2	█ 3	█ 4	█ 3
Chromium	ppm	█ <1	█ 0	█ <1	█ <1
Molybdenum	ppm	█ 57	█ 78	█ 88	█ 107
Nickel	ppm	█ <1	█ <1	█ <1	█ <1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	█ <1	█ 0	█ 0	█ 0
Manganese	ppm	█ <1	█ <1	█ <1	█ <1
Vanadium	ppm	<1	<1	<1	0

ADDITIVES

Calcium	ppm	█ 1516	█ 1390	█ 1200	█ 1304
Magnesium	ppm	█ 495	█ 567	█ 523	█ 622
Zinc	ppm	█ 865	█ 825	█ 781	█ 850
Phosphorus	ppm	█ 761	█ 717	█ 617	█ 701
Barium	ppm	█ 0	█ 0	█ 34	█ 11
Boron	ppm	█ 79	█ 99	█ 92	█ 115

Depot: SCHGRE
Unique No: 11032244
Signed: Wes Davis
Report Date: 16 May 2024



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GRAPHS

