



CONSTRUCTION EQUIPMENT

A11483 VOLVO EC480DL 210065 - DIESEL ENGINE



Sample No: VCP431240
Oil Type: MOBIL 15W40
Job No: A11483



SAMPLE INFORMATION

Sample Number	VCP431240	VCP421863	VCP416829	VCP399150
Sample Date	09 Nov 2023	26 Aug 2023	07 Jun 2023	13 Jan 2023
Machine Hours	8530	8275	8066	7764
Oil Hours	250	250	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.8	■ 12.4	■ 12.4	■ 12.5
Base Number (BN)	mg KOH/g	■ 7.7	■ 9.8	■ 9.7	■ 9.0
Oxidation (PA)	%	47	78	86	55

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.2	■ 0.2	■ 0.2	■ 0.2
Nitration (PA)	%	58	53	57	60
Sulfation (PA)	%	46	59	62	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	■ 2.0	<1.0	■ 1.6	<1.0
Silicon	ppm	■ 3	■ 5	■ 3	■ 4
Sodium	ppm	■ 2	■ 4	■ 2	■ 0
Potassium	ppm	■ <1	■ 0	■ 1	■ <1

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. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

WEAR METALS

Iron	ppm	■ 3	■ 4	■ 2	■ 4
Copper	ppm	■ 1	■ 2	■ 0	■ <1
Lead	ppm	■ 1	■ <1	■ 0	■ 2
Tin	ppm	■ <1	■ <1	■ 0	■ <1
Aluminum	ppm	■ 1	■ 4	■ 10	■ 2
Chromium	ppm	■ 0	■ 0	■ 0	■ <1
Molybdenum	ppm	■ 24	■ 41	■ 39	■ 36
Nickel	ppm	■ <1	■ 0	■ 0	■ <1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ 0	■ <1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	■ 1872	■ 1783	■ 1731	■ 1717
Magnesium	ppm	■ 319	■ 518	■ 531	■ 408
Zinc	ppm	■ 1118	■ 1107	■ 1177	■ 1129
Phosphorus	ppm	■ 893	■ 966	■ 944	■ 913
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 10	■ 51	■ 38	■ 16

Depot: JAAPHI
Unique No: 10764802
Signed: Angela Borella
Report Date: 01 Dec 2023



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GRAPHS

