



CONSTRUCTION EQUIPMENT

9988 VOLVO EC250EL 3 10241 - DIESEL ENGINE



Sample No: VCP398599
Oil Type: CHEVRON 15W40
Job No: 9988



SAMPLE INFORMATION

Sample Number	VCP398599	VCP407910	VCP358607	VCP340219
Sample Date	06 Dec 2023	31 May 2023	29 Jul 2022	18 Feb 2022
Machine Hours	4548	4255	3753	3278
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

DIRT PLUS
 1001 PRINCE GEORGES BLVD
 UPPER MARLBORO, MD
 US 20772
 Contact: MARCO DECESARIS
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 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	13.1	13.2	12.8	13.1
Base Number (BN)	mg KOH/g	6.9	8.2	9.8	9.8
Oxidation (PA)	%	60	71	71	73

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.2	0.2
Nitration (PA)	%	50	60	68	73
Sulfation (PA)	%	58	63	67	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	7	7	7
Sodium	ppm	0	1	0	2
Potassium	ppm	6	10	5	7

WEAR METALS

Iron	ppm	7	8	8	10
Copper	ppm	2	2	3	4
Lead	ppm	<1	<1	<1	1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	5	7	6	7
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	98	117	128	108
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	<1	<1	3
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	<1

ADDITIVES

Calcium	ppm	1389	1535	1486	1655
Magnesium	ppm	403	574	616	706
Zinc	ppm	1214	1127	837	910
Phosphorus	ppm	981	905	689	776
Barium	ppm	11	0	0	0
Boron	ppm	471	395	335	265

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.

Depot: DIRUPP
Unique No: 10782847
Signed: Wes Davis
Report Date: 14 Dec 2023



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GRAPHS

