



CONSTRUCTION EQUIPMENT

10070 ENVIROVANTAGE VOLVO EC250E 310388 - DIESEL ENGINE



Sample No: VCP409473
Oil Type: CHEVRON 15W40
Job No: 10070 ENVIROVANTAGE



SAMPLE INFORMATION

Sample Number	VCP409473	VCP341173	VCP361281	VCP338484
Sample Date	13 Dec 2023	22 Sep 2022	06 Apr 2022	25 Oct 2021
Machine Hours	4901	3979	3594	2991
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.8	13.0	12.9
Base Number (BN)	mg KOH/g	7.9	10.1	8.8	---
Oxidation (PA)	%	73	71	67	75

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 %	%	0.2	0.2	0.2	0.1
Nitration (PA)	%	73	63	59	54
Sulfation (PA)	%	64	67	62	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	8	7	8
Sodium	ppm	1	<1	2	2
Potassium	ppm	8	8	2	10



WEAR METALS

Iron	ppm	14	8	8	16
Copper	ppm	4	1	2	3
Lead	ppm	<1	<1	<1	1
Tin	ppm	1	<1	<1	0
Aluminum	ppm	11	5	6	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	121	131	111	40
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1511	1502	1705	1563
Magnesium	ppm	624	627	694	436
Zinc	ppm	994	793	805	909
Phosphorus	ppm	836	651	799	807
Barium	ppm	<1	0	0	0
Boron	ppm	291	266	307	48

Depot: VOLV00150
Unique No: 10794200
Signed: Don Baldrige
Report Date: 20 Dec 2023



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GRAPHS

