



CONSTRUCTION EQUIPMENT

10071 ENVIROVANTAGE VOLVO EC380E 311837 - DIESEL ENGINE



Sample No: VCP409448
Oil Type: CHEVRON 15W40
Job No: 10071 ENVIROVANTAGE



SAMPLE INFORMATION

Sample Number	VCP409448	VCP387978	VCP341181	VCP361289
Sample Date	13 Dec 2023	06 Apr 2023	22 Sep 2022	07 Apr 2022
Machine Hours	4717	3987	3465	2925
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	12.2	12.1	12.1	12.3
Base Number (BN)	mg KOH/g	6.2	6.5	9.1	7.6
Oxidation (PA)	%	67	63	73	66

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	65	60	70	62
Sulfation (PA)	%	63	57	67	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	3	5	4
Sodium	ppm	2	2	<1	2
Potassium	ppm	2	0	10	0

WEAR METALS

Iron	ppm	5	21	4	3
Copper	ppm	5	1	1	1
Lead	ppm	0	0	<1	0
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	2	3	2
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	92	70	139	109
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1363	1172	1444	1651
Magnesium	ppm	429	908	605	669
Zinc	ppm	1214	1249	758	776
Phosphorus	ppm	1033	1041	618	795
Barium	ppm	<1	0	0	0
Boron	ppm	298	31	244	316

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: VOLV00150
Unique No: 10794201
Signed: Wes Davis
Report Date: 20 Dec 2023



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GRAPHS

