



CONSTRUCTION EQUIPMENT

VOLVO EC250EL 31011 - DIESEL ENGINE



Sample No: VCP400079
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP400079	VCP359619	VCP359625	VCP359519
Sample Date	22 Jun 2023	01 Mar 2023	27 Oct 2022	29 Jul 2022
Machine Hours	5368	5101	4840	4592
Oil Hours	267	261	248	327
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.7	13.2	13.0
Base Number (BN)	mg KOH/g	10.3	10.4	11.6	11.3
Oxidation (PA)	%	83	78	84	80

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

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	48	48	51	55
Sulfation (PA)	%	61	60	65	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	9	6	6
Sodium	ppm	2	1	2	3
Potassium	ppm	<1	1	0	<1



WEAR METALS

Iron	ppm	4	3	3	0
Copper	ppm	<1	1	<1	<1
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	0	<1	1
Aluminum	ppm	1	2	1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	40	40	33
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1798	1634	1653	1521
Magnesium	ppm	544	487	494	473
Zinc	ppm	994	902	907	817
Phosphorus	ppm	810	744	734	682
Barium	ppm	0	<1	0	0
Boron	ppm	67	64	61	56

Depot: SCHGRE
Unique No: 10545751
Signed: Wes Davis
Report Date: 05 Jul 2023



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GRAPHS

