



CONSTRUCTION EQUIPMENT

VOLVO EC250EL 31011 - DIESEL ENGINE



Sample No: VCP416955
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP416955	VCP339698	VCP378440	VCP400079
Sample Date	08 Feb 2024	05 Dec 2023	14 Sep 2023	22 Jun 2023
Machine Hours	6098	5899	5630	5368
Oil Hours	199	269	262	267
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SCHILDBERG CONSTRUCTION COMPANY
 PO BOX 358
 GREENFIELD, IA
 US 50849
 Contact: SCOTT ARMSTRONG
 sarmstrong@schildberg.com
 T: (641)743-8237
 F: (641)743-2486



OIL CONDITION

Visc @ 100°C	cSt	13.2	13.2	12.8	12.8
Base Number (BN)	mg KOH/g	7.9	8.0	10.6	10.3
Oxidation (PA)	%	65	63	80	83

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	58	62	48	48
Sulfation (PA)	%	52	51	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	5	7	7
Sodium	ppm	4	<1	1	2
Potassium	ppm	2	2	1	<1



WEAR METALS

Iron	ppm	3	3	4	4
Copper	ppm	<1	<1	1	<1
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	4	3	3	1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	88	107	42	42
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1200	1304	1642	1798
Magnesium	ppm	523	622	473	544
Zinc	ppm	781	850	925	994
Phosphorus	ppm	617	701	747	810
Barium	ppm	34	11	0	0
Boron	ppm	92	115	55	67

Depot: SCHGRE
Unique No: 10898191
Signed: Don Baldrige
Report Date: 27 Feb 2024



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GRAPHS

