



CONSTRUCTION EQUIPMENT

SW1027523 4-02-2310 VOLVO ECR355EL 310132 - DIESEL ENGINE



Sample No: VCP415119
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1027523 4-02-2310



SAMPLE INFORMATION

Sample Number	VCP415119	VCP353724	VCP324464	---
Sample Date	08 Dec 2023	14 Sep 2022	18 Jun 2021	---
Machine Hours	2120	1609	1049	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.9	13.3	13.8	---
Base Number (BN)	mg KOH/g	9.6	10.9	---	---
Oxidation (PA)	%	67	91	69	---

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	---
Soot %	%	0.2	0.3	0.3	---
Nitration (PA)	%	62	78	77	---
Sulfation (PA)	%	55	67	60	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	8	12	11	---
Sodium	ppm	1	3	5	---
Potassium	ppm	4	0	2	---



WEAR METALS

Iron	ppm	13	32	18	---
Copper	ppm	6	10	20	---
Lead	ppm	1	2	2	---
Tin	ppm	2	3	3	---
Aluminum	ppm	5	6	3	---
Chromium	ppm	<1	2	<1	---
Molybdenum	ppm	54	38	12	---
Nickel	ppm	<1	<1	2	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	<1	0	<1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	<1	---



ADDITIVES

Calcium	ppm	1199	1621	1412	---
Magnesium	ppm	847	491	636	---
Zinc	ppm	1245	997	859	---
Phosphorus	ppm	1000	827	731	---
Barium	ppm	0	0	0	---
Boron	ppm	13	29	66	---

Depot: VOLVO6174
Unique No: 10795613
Signed: Don Baldrige
Report Date: 21 Dec 2023



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GRAPHS

