



CONSTRUCTION EQUIPMENT

SPM632902 MILBURN DE VOLVO ECR145EL 314529 - DIESEL ENGINE



Sample No: VCP429102
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM632902 MILBURN DE



SAMPLE INFORMATION

Sample Number	VCP429102	VCP404920	VCP377331	---
Sample Date	10 Nov 2023	24 Mar 2023	11 May 2022	---
Machine Hours	2235	1710	1215	---
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	12.9	13.7	13.0	---
Base Number (BN)	mg KOH/g	9.7	10.0	11.3	---
Oxidation (PA)	%	60	60	84	---

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	---
Soot %	%	0.3	0.3	0.1	---
Nitration (PA)	%	58	60	63	---
Sulfation (PA)	%	52	53	63	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	4	6	6	---
Sodium	ppm	0	<1	2	---
Potassium	ppm	2	0	0	---



WEAR METALS

Iron	ppm	32	20	9	---
Copper	ppm	4	3	4	---
Lead	ppm	0	0	<1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	11	9	5	---
Chromium	ppm	<1	<1	1	---
Molybdenum	ppm	59	56	41	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1044	1110	1674	---
Magnesium	ppm	865	869	557	---
Zinc	ppm	1139	1174	1088	---
Phosphorus	ppm	942	962	961	---
Barium	ppm	0	0	0	---
Boron	ppm	1	3	57	---

Depot: VOLVO8885
Unique No: 10766813
Signed: Jonathan Hester
Report Date: 04 Dec 2023



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GRAPHS

