



CONSTRUCTION EQUIPMENT

9535 VOLVO ECR235EL 310385 - DIESEL ENGINE



Sample No: VCP422893
Oil Type: CHEVRON 15W40
Job No: 9535



SAMPLE INFORMATION

Sample Number	VCP422893	VCP383662	VCP340164	VCP306118
Sample Date	28 Aug 2023	15 Nov 2022	06 Dec 2021	29 Jan 2021
Machine Hours	4209	3837	3270	2702
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

DIRT PLUS
 1001 PRINCE GEORGES BLVD
 UPPER MARLBORO, MD
 US 20772
 Contact: MARCO DECESARIS
 mdecasaris@dirtyplus.biz
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	13.5	13.2	13.7	14.4
Base Number (BN)	mg KOH/g	7.6	9.6	8.3	---
Oxidation (PA)	%	58	76	81	67

CONTAMINATION

Soot %	%	0.1	0.2	0.2	0.2
Nitration (PA)	%	63	89	88	83
Sulfation (PA)	%	56	66	67	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	8	7	5
Sodium	ppm	2	<1	2	5
Potassium	ppm	0	2	<1	5

WEAR METALS

Iron	ppm	52	33	32	21
Copper	ppm	2	3	3	2
Lead	ppm	0	<1	3	0
Tin	ppm	<1	<1	1	<1
Aluminum	ppm	6	7	6	8
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	97	129	122	27
Nickel	ppm	0	0	0	<1
Titanium	ppm	2	<1	2	13
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	<1

ADDITIVES

Calcium	ppm	1619	1582	1777	1703
Magnesium	ppm	461	630	725	594
Zinc	ppm	1249	880	901	860
Phosphorus	ppm	1046	720	806	811
Barium	ppm	0	0	0	0
Boron	ppm	425	229	170	70

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: DIRUPP
Unique No: 10634940
Signed: Wes Davis
Report Date: 08 Sep 2023



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GRAPHS

