



CONSTRUCTION EQUIPMENT

A11205 VOLVO ECR235 314555 - DIESEL ENGINE



Sample No: VCP412839
Oil Type: MOBIL 15W40
Job No: A11205



SAMPLE INFORMATION

Sample Number	VCP412839	VCP383568	VCP383583	VCP361446
Sample Date	13 Oct 2023	27 Feb 2023	14 Oct 2022	02 May 2022
Machine Hours	2475	0	1520	1172
Oil Hours	250	0	250	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.7	12.9	12.6
Base Number (BN)	mg KOH/g	7.0	9.0	11.9	10.1
Oxidation (PA)	%	54	60	86	72

CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	71	67	58	48
Sulfation (PA)	%	52	52	65	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	6	6
Sodium	ppm	3	1	0	2
Potassium	ppm	0	2	0	<1

WEAR METALS

Iron	ppm	10	11	9	6
Copper	ppm	1	1	<1	<1
Lead	ppm	0	0	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	3	2	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	14	51	39	40
Nickel	ppm	0	<1	0	0
Titanium	ppm	15	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	2011	1458	1703	1645
Magnesium	ppm	294	718	507	532
Zinc	ppm	1159	1222	1094	1145
Phosphorus	ppm	847	1012	917	939
Barium	ppm	0	0	0	0
Boron	ppm	18	9	47	57

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: JAAPHI
Unique No: 10711592
Signed: Wes Davis
Report Date: 26 Oct 2023



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GRAPHS

