



CONSTRUCTION EQUIPMENT

A12192 VOLVO ECR235D 210351 - DIESEL ENGINE



Sample No: VCP439446
Oil Type: MOBIL 15W40
Job No: A12192



SAMPLE INFORMATION

Sample Number	VCP439446	VCP440556	VCP407486	VCP399882
Sample Date	28 Feb 2024	13 Sep 2023	04 May 2023	13 Jan 2023
Machine Hours	8925	8650	8170	7920
Oil Hours	250	0	250	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.9	10.5	13.3
Base Number (BN)	mg KOH/g	6.3	6.5	7.4	8.8
Oxidation (PA)	%	59	47	46	54

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	NEG
Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	62	65	63	57
Sulfation (PA)	%	55	50	48	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	1.1	<1.0
Silicon	ppm	9	5	6	10
Sodium	ppm	2	2	<1	<1
Potassium	ppm	2	2	<1	2



WEAR METALS

Iron	ppm	19	16	17	26
Copper	ppm	2	2	1	1
Lead	ppm	0	<1	0	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	6	4	10	4
Chromium	ppm	1	<1	<1	2
Molybdenum	ppm	55	14	23	33
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	<1	<1	2	11
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1540	2376	1868	1669
Magnesium	ppm	237	148	344	383
Zinc	ppm	1108	1203	1151	1042
Phosphorus	ppm	945	961	916	915
Barium	ppm	0	0	0	0
Boron	ppm	226	4	9	34

Depot: JAAPHI
Unique No: 10903924
Signed: Wes Davis
Report Date: 01 Mar 2024



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VOLVO GRAPHS

