



CONSTRUCTION EQUIPMENT

A12466 VOLVO ECR235E 315472 - DIESEL ENGINE



Sample No: VCP446460
Oil Type: MOBIL 15W40
Job No: A12466



SAMPLE INFORMATION

Sample Number	VCP446460	VCP428749	VCP413662	VCP398892
Sample Date	15 Apr 2024	06 Jan 2024	15 Aug 2023	27 Apr 2023
Machine Hours	1005	825	465	283
Oil Hours	250	250	250	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.4	12.9	12.6	13.1
Base Number (BN)	mg KOH/g	6.8	6.9	6.5	6.3
Oxidation (PA)	%	38	46	53	37



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	54	56	48	49
Sulfation (PA)	%	45	47	51	41
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	14	14
Sodium	ppm	1	<1	2	2
Potassium	ppm	0	2	2	2



WEAR METALS

Iron	ppm	8	9	15	16
Copper	ppm	<1	<1	2	13
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	1	<1	1
Aluminum	ppm	2	3	9	4
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	9	29	87	7
Nickel	ppm	0	1	5	5
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	2	0
Manganese	ppm	<1	<1	1	4
Vanadium	ppm	<1	0	<1	<1



ADDITIVES

Calcium	ppm	2173	1694	1777	2259
Magnesium	ppm	105	402	337	62
Zinc	ppm	962	1149	1320	1000
Phosphorus	ppm	829	947	1116	844
Barium	ppm	0	0	0	0
Boron	ppm	8	27	388	4

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: 10990952
Signed: Wes Davis
Report Date: 22 Apr 2024



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GRAPHS

