



CONSTRUCTION EQUIPMENT

W02007410 VOLVO EC300E 312949 - DIESEL ENGINE



Sample No: VCP416213
Oil Type: MOBIL 15W40
Job No: W02007410



SAMPLE INFORMATION

Sample Number	VCP416213	VCP386194	VCP351273	VCP265968
Sample Date	25 Jul 2023	30 Sep 2022	05 Feb 2022	10 Dec 2019
Machine Hours	4635	4054	3251	474
Oil Hours	500	500	500	474
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	12.5	13.2	12.6
Base Number (BN)	mg KOH/g	8.3	9.8	9.4	---
Oxidation (PA)	%	62	83	80	50



CONTAMINATION

Soot %	%	0.2	0.3	0.3	0.1
Nitration (PA)	%	63	80	80	45
Sulfation (PA)	%	58	63	69	48
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	8	11	22
Sodium	ppm	2	2	<1	3
Potassium	ppm	2	8	15	12



WEAR METALS

Iron	ppm	11	15	17	14
Copper	ppm	2	3	4	12
Lead	ppm	<1	1	3	2
Tin	ppm	<1	2	2	0
Aluminum	ppm	6	8	15	6
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	79	55	126	1
Nickel	ppm	<1	0	<1	5
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	2
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1861	1760	1850	2102
Magnesium	ppm	494	475	769	233
Zinc	ppm	987	1043	973	1110
Phosphorus	ppm	803	861	824	988
Barium	ppm	0	0	0	<1
Boron	ppm	205	41	277	7

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: VOLVO0002
Unique No: 10577358
Signed: Wes Davis
Report Date: 31 Jul 2023



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GRAPHS

