



CONSTRUCTION EQUIPMENT

W02007293 VOLVO EC300 313052 - DIESEL ENGINE



Sample No: VCP418028
Oil Type: MOBIL 15W40
Job No: W02007293



SAMPLE INFORMATION

Sample Number	VCP418028	VCP397833	VCP375116	VCP319458
Sample Date	05 Jul 2023	01 Feb 2023	31 Aug 2022	27 Apr 2022
Machine Hours	5609	5051	4604	3982
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	MARGINAL

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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.2	13.5	▲ 12.4
Base Number (BN)	mg KOH/g	9.0	9.1	9.2	10.6
Oxidation (PA)	%	72	66	71	82

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

Soot %	%	0.2	0.2	0.3	0.2
Nitration (PA)	%	73	67	80	68
Sulfation (PA)	%	63	57	58	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	1.8
Silicon	ppm	7	7	7	6
Sodium	ppm	<1	2	1	2
Potassium	ppm	3	4	7	2



WEAR METALS

Iron	ppm	8	7	10	8
Copper	ppm	2	2	5	1
Lead	ppm	1	<1	1	<1
Tin	ppm	<1	<1	1	1
Aluminum	ppm	5	4	5	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	113	69	56	43
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1637	1576	1299	1595
Magnesium	ppm	706	631	851	455
Zinc	ppm	993	1084	1203	1002
Phosphorus	ppm	794	882	994	851
Barium	ppm	0	0	0	0
Boron	ppm	249	87	9	39

Depot: VOLVO0002
Unique No: 10548400
Signed: Don Baldrige
Report Date: 10 Jul 2023



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GRAPHS

