



CONSTRUCTION EQUIPMENT

SPM620555 PADNOS VOLVO EC250 3 10520 - DIESEL ENGINE



Sample No: VCP428719
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM620555 PADNOS



SAMPLE INFORMATION

Sample Number	VCP428719	VCP407049	VCP369279	VCP365267
Sample Date	23 Oct 2023	11 May 2023	28 Dec 2022	31 Aug 2022
Machine Hours	7942	6889	5911	5292
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	14.0	14.2	14.3	14.0
Base Number (BN)	mg KOH/g	9.3	9.0	8.3	10.4
Oxidation (PA)	%	80	74	65	71



CONTAMINATION

Soot %	%	0.2	0.2	0.2	0.3
Nitration (PA)	%	79	74	73	86
Sulfation (PA)	%	60	57	54	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	6
Sodium	ppm	<1	1	0	1
Potassium	ppm	1	2	4	7



WEAR METALS

Iron	ppm	8	11	10	11
Copper	ppm	1	1	1	1
Lead	ppm	2	1	2	2
Tin	ppm	<1	<1	1	2
Aluminum	ppm	3	4	6	5
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	67	69	50	69
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1369	1382	1492	1419
Magnesium	ppm	1052	854	837	802
Zinc	ppm	1569	1342	1349	1270
Phosphorus	ppm	1187	1108	998	1077
Barium	ppm	0	0	0	0
Boron	ppm	12	13	<1	14

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 acceptable for the time in service.

Depot: VOLVO5023
Unique No: 10727205
Signed: Don Baldrige
Report Date: 07 Nov 2023



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GRAPHS

