



CONSTRUCTION EQUIPMENT

286697 PASCO EXC VOLVO A30G 742628 - DIESEL ENGINE



Sample No: VCP417310
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 286697 PASCO EXC



SAMPLE INFORMATION

Sample Number	VCP417310	VCP393528	VCP386669	VCP348898
Sample Date	21 Jun 2023	06 Mar 2023	11 Oct 2022	04 Mar 2022
Machine Hours	5336	4805	8403	3322
Oil Hours	700	800	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.4	▲ 11.4	▲ 11.5	▲ 11.5
Base Number (BN)	mg KOH/g	■ 9.0	■ 9.4	■ 8.9	■ 10.8
Oxidation (PA)	%	78	79	88	84

Diagnosis

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



CONTAMINATION

Water	%	---	---	■ 0.105	---
Soot %	%	■ 0.3	■ 0.2	■ 0.4	■ 0.3
Nitration (PA)	%	68	60	93	69
Sulfation (PA)	%	58	60	64	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 4.5	▲ 4.6	▲ 4.9	▲ 5.0
Silicon	ppm	■ 4	■ 5	■ 5	■ 4
Sodium	ppm	■ 3	■ 2	■ 5	■ 0
Potassium	ppm	■ 0	■ 0	■ 0	■ <1



WEAR METALS

Iron	ppm	■ 6	■ 5	■ 11	■ 7
Copper	ppm	■ <1	■ <1	■ 1	■ 2
Lead	ppm	■ 0	■ 0	■ <1	■ <1
Tin	ppm	■ <1	■ <1	■ 1	■ <1
Aluminum	ppm	■ <1	■ 1	■ 1	■ 2
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 44	■ 41	■ 39	■ 39
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	<1	0	0	0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ 1	■ <1	■ <1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	■ 1639	■ 1496	■ 1522	■ 1586
Magnesium	ppm	■ 535	■ 485	■ 498	■ 461
Zinc	ppm	■ 1075	■ 1005	■ 1062	■ 1095
Phosphorus	ppm	■ 921	■ 818	■ 860	■ 916
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 35	■ 41	■ 16	■ 37

Depot: VOLVO0093
Unique No: 10565424
Signed: Don Baldrige
Report Date: 27 Jul 2023



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GRAPHS

