



CONSTRUCTION EQUIPMENT

136482 PARAGON VOLVO L120H 14300 - DIESEL ENGINE



Sample No: VCP114331
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 136482 PARAGON



SAMPLE INFORMATION

Sample Number	VCP114331	VCP215650	VCP209848	VKC001004
Sample Date	21 Mar 2024	19 Jan 2018	14 Sep 2017	24 Jun 2017
Machine Hours	25637	2844	928	840
Oil Hours	0	0	0	500
Oil Changed	Not Chngd	Changed	Changed	N/A
Sample Status	SEVERE	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 3.4	■ 14.06	■ 13.31	11.6
Base Number (BN)	mg KOH/g	■ 7.4	---	---	---
Oxidation (PA)	%	43	■ 84	■ 76	■ 60



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.4	■ 0.3	■ 0	■ 0.1
Nitration (PA)	%	56	■ 75	■ 50	■ 67
Sulfation (PA)	%	43	■ 58	■ 58	■ 53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 43.5	<1.0	<1.0	<1.0
Silicon	ppm	■ 6	■ 8	■ 9	■ 23
Sodium	ppm	■ 5	■ 4	■ 6	■ 4
Potassium	ppm	■ 2	■ 1	■ <1	■ 1



WEAR METALS

Iron	ppm	■ 10	■ 56	■ 13	■ 58
Copper	ppm	■ <1	■ 5	■ 4	■ 23
Lead	ppm	■ <1	■ 1	■ 0	■ 3
Tin	ppm	■ <1	■ 2	■ 12	■ <1
Aluminum	ppm	■ 4	■ 24	■ 21	▲ 103
Chromium	ppm	■ 0	■ 2	■ 1	■ 6
Molybdenum	ppm	■ 25	■ 39	■ 43	■ 43
Nickel	ppm	■ <1	■ <1	■ 0	■ 0
Titanium	ppm	0	<1	0	0
Silver	ppm	■ 0	<1	<1	1
Manganese	ppm	■ <1	■ <1	■ 1	■ 4
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	816	■ 1610	■ 1498	■ 1281
Magnesium	ppm	■ 340	■ 530	■ 617	816
Zinc	ppm	632	■ 850	■ 933	■ 1043
Phosphorus	ppm	532	■ 670	■ 792	■ 804
Barium	ppm	■ 0	■ 0	■ 0	■ 1
Boron	ppm	■ 11	■ 20	■ 52	■ 37

Diagnosis

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO0053
Unique No: 10964408
Signed: Sean Felton
Report Date: 09 Apr 2024



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GRAPHS

