



CONSTRUCTION EQUIPMENT

620553 VOLVO L110G 8200 - DIESEL ENGINE



Sample No: VCP435962
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 620553



SAMPLE INFORMATION

Sample Number	VCP435962	VCP370554	VCP386898	VCP366393
Sample Date	10 Nov 2023	02 Dec 2022	02 Sep 2022	10 Jun 2022
Machine Hours	17550	16481	15914	15431
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	█ 14.4	█ 14.7	█ 14.5	█ 14.8
Base Number (BN)	mg KOH/g	█ 9.5	█ 10.4	█ 12.4	█ 16.5
Oxidation (PA)	%	65	66	70	67

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.

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	█ 1	█ 1.2	█ 1.3	█ 0.9
Nitration (PA)	%	75	82	93	113
Sulfation (PA)	%	58	64	65	61
Glycol	%	NEG	█ 0.0	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	█ 5	█ 5	█ 5	█ 8
Sodium	ppm	█ 21	█ 93	▲ 408	▲ 1772
Potassium	ppm	█ 1	█ 0	█ 9	▲ 34

WEAR METALS

Iron	ppm	█ 18	█ 15	█ 23	█ 24
Copper	ppm	█ 1	█ 1	█ 2	█ 3
Lead	ppm	█ <1	█ 0	█ 4	█ 6
Tin	ppm	█ <1	█ 0	█ <1	█ <1
Aluminum	ppm	█ 4	█ 4	█ 3	█ 9
Chromium	ppm	█ <1	█ <1	█ 1	█ 2
Molybdenum	ppm	█ 54	█ 60	█ 71	█ 104
Nickel	ppm	█ 0	█ 0	█ 0	█ <1
Titanium	ppm	0	<1	<1	2
Silver	ppm	█ 0	█ 0	0	0
Manganese	ppm	█ <1	█ <1	█ <1	█ <1
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	█ 1146	█ 1248	█ 1229	█ 1141
Magnesium	ppm	█ 853	906	1053	█ 931
Zinc	ppm	█ 1216	█ 1261	█ 1389	█ 1252
Phosphorus	ppm	█ 986	█ 1043	█ 1109	█ 1037
Barium	ppm	█ 0	█ 0	█ <1	█ 1
Boron	ppm	█ 20	█ 37	█ 3	█ 15

Depot: BLADET
Unique No: 10764756
Signed: Don Baldrige
Report Date: 01 Dec 2023



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GRAPHS

