



CONSTRUCTION EQUIPMENT

A11315 VOLVO L110F 5151 - DIESEL ENGINE



Sample No: VCP431256
Oil Type: MOBIL 15W40
Job No: A11315



SAMPLE INFORMATION

Sample Number	VCP431256	VCP410762	VCP400627	VCP371513
Sample Date	19 Oct 2023	21 Jun 2023	08 May 2023	19 Jul 2022
Machine Hours	24830	24240	23415	22403
Oil Hours	500	500	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	█ 14.0	█ 14.0	▲ 10.4	█ 13.6
Base Number (BN)	mg KOH/g	█ 7.2	█ 7.6	█ 9.1	█ 10.9
Oxidation (PA)	%	62	47	98	92

CONTAMINATION

Soot %	%	█ 0.3	█ 0.2	█ 0.4	█ 0.3
Nitration (PA)	%	69	60	90	75
Sulfation (PA)	%	57	48	70	70
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	█ 0.5	<1.0
Silicon	ppm	█ 7	█ 4	█ 9	█ 8
Sodium	ppm	█ 3	█ 2	█ 3	█ 2
Potassium	ppm	█ 0	█ 2	█ <1	█ 0

WEAR METALS

Iron	ppm	█ 6	█ 3	█ 13	█ 6
Copper	ppm	█ <1	█ 0	█ <1	█ <1
Lead	ppm	█ 0	█ 0	█ 1	█ 1
Tin	ppm	█ 0	█ 0	█ <1	█ <1
Aluminum	ppm	█ 2	█ <1	█ 5	█ 2
Chromium	ppm	█ <1	█ 0	█ <1	█ <1
Molybdenum	ppm	█ 23	█ 15	█ 42	█ 44
Nickel	ppm	█ 0	█ 0	█ 0	█ <1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	█ 0	█ 0	█ 0	<1
Manganese	ppm	█ <1	█ 0	█ <1	█ <1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	█ 2032	█ 2220	█ 1875	█ 1715
Magnesium	ppm	█ 323	█ 178	█ 606	█ 532
Zinc	ppm	█ 1175	█ 1176	█ 1249	█ 1144
Phosphorus	ppm	█ 870	█ 955	█ 989	█ 909
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 15	█ 10	█ 36	█ 48

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.

Depot: COVBAl
Unique No: 10711594
Signed: Wes Davis
Report Date: 26 Oct 2023



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VOLVO GRAPHS

