



CONSTRUCTION EQUIPMENT

VOLVO L250H 61 - DIESEL ENGINE



Sample No: VCP401538
Oil Type: SHELL ROTELLA T 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP401538	VCP319750	VCP288964	VCP258158
Sample Date	16 Aug 2023	30 Nov 2021	13 Apr 2021	10 Feb 2020
Machine Hours	16170	12087	10465	8405
Oil Hours	500	500	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	ATTENTION	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	█ 11.8	▲ 10.7	▲ 11.3	█ 12.0
Base Number (BN)	mg KOH/g	█ 4.2	█ 3.1	---	---
Oxidation (PA)	%	66	70	59	64

CONTAMINATION

Soot %	%	█ 0.4	█ 0.6	█ 0.2	█ 0.3
Nitration (PA)	%	68	74	65	66
Sulfation (PA)	%	61	69	65	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	█ 1.3	<1.0
Silicon	ppm	█ 5	█ 15	█ 2	█ 6
Sodium	ppm	█ 6	█ 6	█ 2	█ 3
Potassium	ppm	█ 1	█ 3	█ 1	█ 3

WEAR METALS

Iron	ppm	█ 9	█ 22	█ 12	█ 9
Copper	ppm	█ <1	█ 3	█ 2	█ 4
Lead	ppm	█ 1	█ 10	█ 3	█ 2
Tin	ppm	█ <1	█ 1	█ <1	█ 0
Aluminum	ppm	█ 1	█ 2	█ 0	█ 3
Chromium	ppm	█ 0	█ <1	█ <1	█ <1
Molybdenum	ppm	█ 35	█ 34	█ 21	█ 53
Nickel	ppm	█ 0	█ <1	█ 0	█ <1
Titanium	ppm	<1	2	<1	<1
Silver	ppm	█ 0	0	0	0
Manganese	ppm	█ <1	█ <1	█ <1	█ <1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	█ 1811	█ 1359	█ 1873	█ 1692
Magnesium	ppm	█ 229	█ 389	█ 97	█ 366
Zinc	ppm	█ 1032	█ 911	█ 858	█ 1078
Phosphorus	ppm	█ 851	█ 784	█ 775	█ 903
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	18	█ 7	13	█ 45

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: JMHMAR
Unique No: 10621098
Signed: Wes Davis
Report Date: 28 Aug 2023



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GRAPHS

