



CONSTRUCTION EQUIPMENT

2023-1019051 VOLVO A45G 88 (S/N NOT GIVEN) - DIESEL ENGINE



Sample No: VCP405230
Oil Type: SHELL 15W40
Job No: 2023-1019051



SAMPLE INFORMATION

Sample Number	VCP405230	---	---	---
Sample Date	27 Nov 2023	---	---	---
Machine Hours	4846	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.6	---	---	---
Base Number (BN)	mg KOH/g	█ 6.1	---	---	---
Oxidation (PA)	%	59	---	---	---

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.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.9	---	---	---
Nitration (PA)	%	70	---	---	---
Sulfation (PA)	%	59	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 4	---	---	---



WEAR METALS

Iron	ppm	█ 21	---	---	---
Copper	ppm	█ 9	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 6	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 34	---	---	---
Nickel	ppm	█ 4	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 2331	---	---	---
Magnesium	ppm	█ 214	---	---	---
Zinc	ppm	█ 1346	---	---	---
Phosphorus	ppm	█ 1088	---	---	---
Barium	ppm	█ 3	---	---	---
Boron	ppm	█ 63	---	---	---

Depot: JMHMAR
Unique No: 10781129
Signed: Jonathan Hester
Report Date: 14 Dec 2023



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GRAPHS

