



CONSTRUCTION EQUIPMENT

SPM538832 WHEELER DA VOLVO L90H 626490 - DIESEL ENGINE



Sample No: VCP406927
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM538832 WHEELER DA



SAMPLE INFORMATION

Sample Number	VCP406927	VCP397207	---	---
Sample Date	14 Apr 2023	17 Jan 2023	---	---
Machine Hours	1006	460	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 14.6	█ 13.6	---	---
Base Number (BN)	mg KOH/g	█ 7.0	█ 9.0	---	---
Oxidation (PA)	%	77	75	---	---

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

Soot %	%	█ 0.6	█ 0.4	---	---
Nitration (PA)	%	87	78	---	---
Sulfation (PA)	%	60	58	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 2	█ 14	---	---
Sodium	ppm	█ 3	█ 0	---	---
Potassium	ppm	█ 2	█ 1	---	---



WEAR METALS

Iron	ppm	█ 34	█ 37	---	---
Copper	ppm	█ 5	█ 9	---	---
Lead	ppm	█ 0	█ 3	---	---
Tin	ppm	█ 2	█ 5	---	---
Aluminum	ppm	█ 8	█ 27	---	---
Chromium	ppm	█ 3	█ 5	---	---
Molybdenum	ppm	█ 69	█ 54	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 2	█ 3	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	█ 1590	█ 1824	---	---
Magnesium	ppm	822	█ 476	---	---
Zinc	ppm	█ 1408	█ 1266	---	---
Phosphorus	ppm	█ 1134	█ 1006	---	---
Barium	ppm	█ 0	█ 4	---	---
Boron	ppm	█ 0	█ 42	---	---

Depot: VOLVO5023
Unique No: 10444409
Signed: Wes Davis
Report Date: 27 Apr 2023



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GRAPHS

