



CONSTRUCTION EQUIPMENT

24537 VOLVO A45 353393 - DIESEL ENGINE



Sample No: VCP429015
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 24537



SAMPLE INFORMATION

Sample Number	VCP429015	VCP430769	---	---
Sample Date	04 Dec 2023	08 Sep 2023	---	---
Machine Hours	3074	2102	---	---
Oil Hours	1000	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.5	█ 12.7	---	---
Base Number (BN)	mg KOH/g	█ 9.2	█ 6.9	---	---
Oxidation (PA)	%	76	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	NEG	---	---
Soot %	%	█ 0.5	█ 0.4	---	---
Nitration (PA)	%	63	61	---	---
Sulfation (PA)	%	60	58	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 5	█ 6	---	---
Sodium	ppm	█ 7	█ 2	---	---
Potassium	ppm	█ <1	█ 3	---	---



WEAR METALS

Iron	ppm	█ 67	█ 8	---	---
Copper	ppm	█ 9	█ 10	---	---
Lead	ppm	█ 0	█ 1	---	---
Tin	ppm	█ <1	█ 2	---	---
Aluminum	ppm	█ 4	█ 2	---	---
Chromium	ppm	█ 2	█ <1	---	---
Molybdenum	ppm	█ 59	█ 82	---	---
Nickel	ppm	█ 1	█ 2	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 2	█ <1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	█ 1087	█ 1503	---	---
Magnesium	ppm	█ 919	█ 423	---	---
Zinc	ppm	█ 1233	█ 1199	---	---
Phosphorus	ppm	█ 957	█ 965	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 2	319	---	---

Depot: VOLVO3387
Unique No: 10777256
Signed: Don Baldrige
Report Date: 09 Dec 2023



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GRAPHS

