



CONSTRUCTION EQUIPMENT

VOLVO A40G 352355 - DIESEL ENGINE



Sample No: VCP442809
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP442809	VCP417341	---	---
Sample Date	11 Jul 2024	23 Jun 2023	---	---
Machine Hours	4971	7528	---	---
Oil Hours	0	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.3	---	---
Base Number (BN)	mg KOH/g	8.0	9.5	---	---
Oxidation (PA)	%	81	78	---	---

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 %	%	0.3	0.2	---	---
Nitration (PA)	%	78	63	---	---
Sulfation (PA)	%	60	59	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.6	---	---
Silicon	ppm	7	4	---	---
Sodium	ppm	14	4	---	---
Potassium	ppm	0	0	---	---



WEAR METALS

Iron	ppm	23	8	---	---
Copper	ppm	4	2	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	12	8	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	44	48	---	---
Nickel	ppm	<1	5	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	1709	1723	---	---
Magnesium	ppm	495	529	---	---
Zinc	ppm	1049	1105	---	---
Phosphorus	ppm	914	937	---	---
Barium	ppm	0	0	---	---
Boron	ppm	29	41	---	---

Depot: VOLVO0090
Unique No: 11124273
Signed: Wes Davis
Report Date: 15 Jul 2024



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GRAPHS

