



CONSTRUCTION EQUIPMENT

VOLVO A45G 752059 - DIESEL ENGINE



Sample No: VCP449978
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP449978	VCP445954	---	---
Sample Date	04 Jun 2024	29 Feb 2024	---	---
Machine Hours	1204	732	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ATTENTION	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.3	10.8	---	---
Base Number (BN)	mg KOH/g	9.0	5.3	---	---
Oxidation (PA)	%	77	57	---	---

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	0.4	---	---
Nitration (PA)	%	61	78	---	---
Sulfation (PA)	%	63	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.7	---	---
Silicon	ppm	8	26	---	---
Sodium	ppm	<1	4	---	---
Potassium	ppm	1	0	---	---



WEAR METALS

Iron	ppm	10	22	---	---
Copper	ppm	98	230	---	---
Lead	ppm	<1	2	---	---
Tin	ppm	2	4	---	---
Aluminum	ppm	2	3	---	---
Chromium	ppm	<1	1	---	---
Molybdenum	ppm	47	80	---	---
Nickel	ppm	2	9	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1693	2197	---	---
Magnesium	ppm	445	23	---	---
Zinc	ppm	1104	1074	---	---
Phosphorus	ppm	898	956	---	---
Barium	ppm	0	0	---	---
Boron	ppm	32	22	---	---

Depot: VOLVO0090
Unique No: 11073567
Signed: Sean Felton
Report Date: 13 Jun 2024



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GRAPHS

