



CONSTRUCTION EQUIPMENT

25247 VOLVO A45G 353377 - DIESEL ENGINE



Sample No: VCP408871
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25247



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SAMPLE INFORMATION

Sample Number	VCP408871	VCP439309	VCP433647	---
Sample Date	02 Apr 2024	19 Dec 2023	26 Sep 2023	---
Machine Hours	3742	3238	2758	---
Oil Hours	0	0	1000	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	12.3	12.4	12.5	---
Base Number (BN)	mg KOH/g	8.7	9.1	6.2	---
Oxidation (PA)	%	82	79	62	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.5	0.5	0.5	---
Nitration (PA)	%	73	71	67	---
Sulfation (PA)	%	61	60	60	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	6	7	---
Sodium	ppm	2	2	5	---
Potassium	ppm	0	<1	4	---



WEAR METALS

Iron	ppm	11	9	11	---
Copper	ppm	9	8	15	---
Lead	ppm	<1	1	2	---
Tin	ppm	<1	1	1	---
Aluminum	ppm	2	1	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	45	48	101	---
Nickel	ppm	4	1	1	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1654	1710	1556	---
Magnesium	ppm	495	490	498	---
Zinc	ppm	1086	1223	1362	---
Phosphorus	ppm	944	877	1126	---
Barium	ppm	0	0	0	---
Boron	ppm	35	43	371	---

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.

Depot: VOLVO3387
Unique No: 10965817
Signed: Jonathan Hester
Report Date: 10 Apr 2024



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GRAPHS

