



CONSTRUCTION EQUIPMENT

19764 LANE-BLYTHE VOLVO A45G FS 352463 - DIESEL ENGINE



Sample No: VCP441379
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 19764 LANE-BLYTHE



SAMPLE INFORMATION

Sample Number	VCP441379	VCP417294	VCP331009	---
Sample Date	05 Oct 2023	07 Jun 2023	16 Jun 2022	---
Machine Hours	4306	3658	2321	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.4	12.8	---
Base Number (BN)	mg KOH/g	7.5	6.1	5.8	---
Oxidation (PA)	%	53	55	47	---

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 acceptable for the time in service.



CONTAMINATION

Soot %	%	0.4	0.6	0.5	---
Nitration (PA)	%	63	73	72	---
Sulfation (PA)	%	50	59	59	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	1.2	<1.0	---
Silicon	ppm	3	4	4	---
Sodium	ppm	<1	4	<1	---
Potassium	ppm	<1	0	0	---



WEAR METALS

Iron	ppm	7	14	14	---
Copper	ppm	2	15	91	---
Lead	ppm	0	1	1	---
Tin	ppm	<1	1	1	---
Aluminum	ppm	2	2	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	54	31	7	---
Nickel	ppm	<1	<1	2	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	1119	1982	2219	---
Magnesium	ppm	920	403	59	---
Zinc	ppm	1274	1146	1038	---
Phosphorus	ppm	1064	904	852	---
Barium	ppm	0	0	0	---
Boron	ppm	4	3	6	---

Depot: VOLVO8769
Unique No: 10701647
Signed: Don Baldrige
Report Date: 21 Oct 2023



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GRAPHS

