



CONSTRUCTION EQUIPMENT

19769 LANE-BLYTHE VOLVO A45G FS 352473 - DIESEL ENGINE



Sample No: VCP414040
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 19769 LANE-BLYTHE



SAMPLE INFORMATION

Sample Number	VCP414040	VCP423690	VCP390323	VCP375615
Sample Date	11 Oct 2023	08 Jun 2023	18 Oct 2022	09 Jun 2022
Machine Hours	5578	5010	4020	3292
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	12.6	12.8	12.6
Base Number (BN)	mg KOH/g	8.1	6.8	8.9	5.8
Oxidation (PA)	%	53	49	64	51



CONTAMINATION

Soot %	%	0.3	0.3	0.3	0.3
Nitration (PA)	%	55	72	69	71
Sulfation (PA)	%	49	52	59	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	3	4
Sodium	ppm	<1	0	2	20
Potassium	ppm	<1	1	0	3



WEAR METALS

Iron	ppm	4	6	8	11
Copper	ppm	<1	3	24	93
Lead	ppm	0	<1	<1	2
Tin	ppm	<1	<1	1	1
Aluminum	ppm	2	0	1	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	56	25	53	12
Nickel	ppm	<1	<1	0	1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1111	1457	1315	2150
Magnesium	ppm	951	335	798	130
Zinc	ppm	1295	942	1151	1093
Phosphorus	ppm	1104	778	975	845
Barium	ppm	0	0	0	0
Boron	ppm	2	4	6	6

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.

Depot: VOLVO8769
Unique No: 10701652
Signed: Don Baldrige
Report Date: 21 Oct 2023



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GRAPHS

