



CONSTRUCTION EQUIPMENT

SWO-070856 VOLVO A45G 342096 - DIESEL ENGINE



Sample No: VCP438717
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-070856



SAMPLE INFORMATION

Sample Number	VCP438717	VCP431008	VCP411741	VCP404606
Sample Date	02 Apr 2024	13 Nov 2023	22 Aug 2023	08 May 2023
Machine Hours	10079	9583	9107	8608
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	12.6	13.0	12.6	12.8
Base Number (BN)	mg KOH/g	6.4	9.5	9.5	10.3
Oxidation (PA)	%	63	70	75	82



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.2	0.2	0.2
Nitration (PA)	%	78	53	53	58
Sulfation (PA)	%	51	55	58	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	4	5
Sodium	ppm	2	2	3	0
Potassium	ppm	2	0	3	1



WEAR METALS

Iron	ppm	4	2	4	5
Copper	ppm	0	<1	<1	<1
Lead	ppm	1	0	1	0
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	5	<1	1	<1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	105	46	40	43
Nickel	ppm	2	0	<1	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	1355	1428	1641	1706
Magnesium	ppm	654	625	463	488
Zinc	ppm	927	1124	908	1109
Phosphorus	ppm	795	1008	740	935
Barium	ppm	0	0	0	0
Boron	ppm	88	31	41	55

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: SAIBIR
Unique No: 10964406
Signed: Don Baldrige
Report Date: 07 Apr 2024



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GRAPHS

