



CONSTRUCTION EQUIPMENT

SWO-071394 VOLVO A60H 350187 - DIESEL ENGINE



Sample No: VCP452736
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-071394



SAMPLE INFORMATION

Sample Number	VCP452736	VCP431071	VCP410911	VCP428996
Sample Date	29 Apr 2024	29 Jan 2024	11 Jan 2024	06 Sep 2023
Machine Hours	3015	2574	2513	2021
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	13.0	12.7	12.7
Base Number (BN)	mg KOH/g	7.3	8.2	9.6	10.3
Oxidation (PA)	%	62	58	71	75



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.1	0.3	0.2
Nitration (PA)	%	70	54	53	46
Sulfation (PA)	%	52	50	57	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	4	5	6
Sodium	ppm	2	3	1	12
Potassium	ppm	4	1	2	<1



WEAR METALS

Iron	ppm	8	0	10	8
Copper	ppm	6	<1	2	1
Lead	ppm	<1	1	1	0
Tin	ppm	1	<1	2	<1
Aluminum	ppm	4	2	2	<1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	104	86	45	42
Nickel	ppm	3	1	6	1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	1385	1209	1449	1862
Magnesium	ppm	614	585	596	532
Zinc	ppm	922	847	1140	1172
Phosphorus	ppm	792	706	933	964
Barium	ppm	0	0	1	0
Boron	ppm	113	115	45	63

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: SAIBIR
Unique No: 11008911
Signed: Don Baldrige
Report Date: 07 May 2024



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VOLVO GRAPHS

