



CONSTRUCTION EQUIPMENT

INSPECTION VOLVO A60H 350187 - DIESEL ENGINE



Sample No: VCP431071
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: INSPECTION



SAMPLE INFORMATION

Sample Number	VCP431071	VCP410911	VCP428996	VCP357978
Sample Date	29 Jan 2024	11 Jan 2024	06 Sep 2023	09 Mar 2023
Machine Hours	2574	2513	2021	1585
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Not Changd
Sample Status	NORMAL	ABNORMAL	NORMAL	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	13.0	12.7	12.7	13.4
Base Number (BN)	mg KOH/g	8.2	9.6	10.3	11.3
Oxidation (PA)	%	58	71	75	75

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.3	0.2	0.1
Nitration (PA)	%	54	53	46	43
Sulfation (PA)	%	50	57	58	60
Glycol	%	NEG	NEG	NEG	0.0
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	6	4
Sodium	ppm	3	1	12	56
Potassium	ppm	1	2	<1	6



WEAR METALS

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



ADDITIVES

Calcium	ppm	1209	1449	1862	1639
Magnesium	ppm	585	596	532	495
Zinc	ppm	847	1140	1172	1108
Phosphorus	ppm	706	933	964	898
Barium	ppm	0	1	0	0
Boron	ppm	115	45	63	64

Depot: SAIBIR
Unique No: 10858569
Signed: Don Baldrige
Report Date: 02 Feb 2024



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GRAPHS

