



CONSTRUCTION EQUIPMENT

SWO-071763 VOLVO A60H 340039 - DIESEL ENGINE



Sample No: VCP454761
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-071763



SAMPLE INFORMATION

Sample Number	VCP454761	VCP441433	VCP433643	VCP413326
Sample Date	07 May 2024	18 Jan 2024	27 Sep 2023	20 Jun 2023
Machine Hours	9022	8521	8052	7542
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	12.8	12.8	12.5	12.7
Base Number (BN)	mg KOH/g	7.6	9.6	9.1	10.3
Oxidation (PA)	%	67	77	74	82



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.3	0.3	0.3
Nitration (PA)	%	71	60	56	63
Sulfation (PA)	%	54	59	58	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	4	5
Sodium	ppm	4	6	7	6
Potassium	ppm	<1	1	4	2



WEAR METALS

Iron	ppm	6	5	6	9
Copper	ppm	<1	0	3	2
Lead	ppm	<1	<1	1	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	6	5	4	1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	81	38	32	46
Nickel	ppm	<1	1	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1608	1476	1118	1746
Magnesium	ppm	606	476	350	548
Zinc	ppm	960	988	648	1180
Phosphorus	ppm	839	855	602	955
Barium	ppm	0	<1	0	14
Boron	ppm	88	46	23	54

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: 11021142
Signed: Don Baldrige
Report Date: 13 May 2024



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GRAPHS

