



CONSTRUCTION EQUIPMENT

SWO073151 VOLVO A60H 350021 - DIESEL ENGINE



Sample No: VCP450578
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO073151



SAMPLE INFORMATION

Sample Number	VCP450578	VCP444465	VCP427434	VCP413101
Sample Date	26 Jun 2024	15 Feb 2024	25 Sep 2023	12 Jun 2023
Machine Hours	8427	7887	7398	6877
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.6	12.8	12.8
Base Number (BN)	mg KOH/g	9.7	7.4	10.1	9.9
Oxidation (PA)	%	77	66	80	84



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.3	0.3
Nitration (PA)	%	58	73	58	58
Sulfation (PA)	%	58	52	61	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	4
Sodium	ppm	2	2	4	1
Potassium	ppm	2	0	<1	0



WEAR METALS

Iron	ppm	5	5	4	6
Copper	ppm	1	1	<1	0
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	3	4	3	3
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	50	100	43	42
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1735	1447	1851	1616
Magnesium	ppm	509	632	554	503
Zinc	ppm	1131	902	1220	1072
Phosphorus	ppm	969	786	997	906
Barium	ppm	0	0	0	0
Boron	ppm	56	74	51	60

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: 11113279
Signed: Sean Felton
Report Date: 09 Jul 2024



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GRAPHS

