



CONSTRUCTION EQUIPMENT

SWO-071488 VOLVO A60 340124 - DIESEL ENGINE



Sample No: VCP450893
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-071488



SAMPLE INFORMATION

Sample Number	VCP450893	VCP431965	VCP408958	VCP402389
Sample Date	25 Apr 2024	06 Nov 2023	15 Jun 2023	04 Mar 2023
Machine Hours	9238	8770	2220	7828
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	12.9	13.2	12.6
Base Number (BN)	mg KOH/g	9.6	10.0	9.3	9.6
Oxidation (PA)	%	76	80	84	67

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.8	0.7	0.4
Nitration (PA)	%	58	67	68	64
Sulfation (PA)	%	60	63	63	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	12	12	11	6
Sodium	ppm	24	7	8	23
Potassium	ppm	3	1	0	0



WEAR METALS

Iron	ppm	19	19	15	6
Copper	ppm	1	<1	<1	1
Lead	ppm	2	2	2	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	6	7	6	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	52	40	44	46
Nickel	ppm	2	2	1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	2096	1716	1613	1342
Magnesium	ppm	648	514	541	731
Zinc	ppm	1421	1003	1087	1026
Phosphorus	ppm	1228	917	903	854
Barium	ppm	0	0	0	0
Boron	ppm	60	27	36	14

Depot: SAIBIR
Unique No: 11004806
Signed: Don Baldrige
Report Date: 01 May 2024



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GRAPHS

