



CONSTRUCTION EQUIPMENT

SWO-071569 VOLVO A45G 353090 - DIESEL ENGINE



Sample No: VCP453647
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-071569



SAMPLE INFORMATION

Sample Number	VCP453647	VCP447539	VCP431101	VCP407574
Sample Date	02 May 2024	03 Jan 2024	19 Sep 2023	09 Jun 2023
Machine Hours	3089	2588	2023	1481
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	12.6	12.9	12.6	12.8
Base Number (BN)	mg KOH/g	9.8	9.4	9.6	9.0
Oxidation (PA)	%	77	77	81	85

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 %	%	0.2	0.2	0.3	0.3
Nitration (PA)	%	56	60	60	61
Sulfation (PA)	%	59	59	62	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	7	7
Sodium	ppm	3	0	3	3
Potassium	ppm	0	1	<1	2



WEAR METALS

Iron	ppm	3	8	8	10
Copper	ppm	3	3	7	39
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	1	1	2
Aluminum	ppm	<1	2	0	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	43	46	40	44
Nickel	ppm	0	2	2	4
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1787	1641	1771	1733
Magnesium	ppm	499	570	510	525
Zinc	ppm	1021	1129	1140	1197
Phosphorus	ppm	909	912	919	971
Barium	ppm	0	8	0	0
Boron	ppm	78	40	39	47

Depot: SAIBIR
Unique No: 11019671
Signed: Don Baldrige
Report Date: 11 May 2024



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GRAPHS

