



CONSTRUCTION EQUIPMENT

SWO-071952 VOLVO A45G 352969 - DIESEL ENGINE



Sample No: VCP442563
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-071952



SAMPLE INFORMATION

Sample Number	VCP442563	VCP446712	VCP447587	VCP433941
Sample Date	23 May 2024	27 Feb 2024	20 Dec 2023	19 Sep 2023
Machine Hours	3944	3453	2980	2491
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.5	12.4	12.5
Base Number (BN)	mg KOH/g	9.4	9.6	6.9	9.4
Oxidation (PA)	%	77	78	66	76



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.6	0.3	0.3	0.3
Nitration (PA)	%	70	60	77	56
Sulfation (PA)	%	60	58	54	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.3	<1.0
Silicon	ppm	6	4	6	6
Sodium	ppm	<1	2	2	5
Potassium	ppm	1	<1	<1	<1



WEAR METALS

Iron	ppm	8	7	7	11
Copper	ppm	1	<1	2	2
Lead	ppm	<1	1	<1	0
Tin	ppm	1	1	1	2
Aluminum	ppm	3	2	3	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	69	46	96	43
Nickel	ppm	4	6	4	2
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1435	1607	1384	1793
Magnesium	ppm	532	494	656	529
Zinc	ppm	916	1037	956	1154
Phosphorus	ppm	838	925	815	978
Barium	ppm	1	0	0	0
Boron	ppm	59	52	69	43

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: 11057086
Signed: Jonathan Hester
Report Date: 31 May 2024



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VOLVO GRAPHS

