



CONSTRUCTION EQUIPMENT

SWO-071569 VOLVO A45G 353092 - DIESEL ENGINE



Sample No: VCP453679
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-071569



SAMPLE INFORMATION

Sample Number	VCP453679	VCP435641	VCP433851	VCP407793
Sample Date	02 May 2024	03 Jan 2024	19 Sep 2023	09 Jun 2023
Machine Hours	3022	2545	2012	1497
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	12.5	12.9	12.6	12.8
Base Number (BN)	mg KOH/g	10.0	9.7	10.1	9.4
Oxidation (PA)	%	78	76	80	84



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.3	0.3	0.3
Nitration (PA)	%	53	58	57	57
Sulfation (PA)	%	60	58	61	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	7	7
Sodium	ppm	3	0	2	2
Potassium	ppm	0	1	0	1



WEAR METALS

Iron	ppm	3	9	8	9
Copper	ppm	2	2	2	8
Lead	ppm	0	1	<1	1
Tin	ppm	0	2	1	2
Aluminum	ppm	2	2	0	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	43	47	38	44
Nickel	ppm	0	2	1	2
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	1790	1685	1723	1695
Magnesium	ppm	476	578	501	524
Zinc	ppm	1017	1154	1119	1179
Phosphorus	ppm	921	909	903	971
Barium	ppm	0	8	0	0
Boron	ppm	79	42	40	52

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: 11019669
Signed: Don Baldrige
Report Date: 11 May 2024

VOLVO **GRAPHS**

