



CONSTRUCTION EQUIPMENT

SW-33730-2 CLAWSON VOLVO A45G 352577 - DIESEL ENGINE



Sample No: VCP395699
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SW-33730-2 CLAWSON



SAMPLE INFORMATION

Sample Number	VCP395699	VCP438048	VCP442162	VCP360534
Sample Date	01 May 2024	12 Feb 2024	13 Oct 2023	07 Jul 2022
Machine Hours	4998	4573	4103	2827
Oil Hours	500	478	400	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	13.1	13.6	13.1
Base Number (BN)	mg KOH/g	7.8	7.0	7.0	9.1
Oxidation (PA)	%	45	56	60	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	0.6	0.3	0.6
Nitration (PA)	%	58	68	74	81
Sulfation (PA)	%	48	53	53	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	4	4	5
Sodium	ppm	2	3	2	<1
Potassium	ppm	0	0	4	2



WEAR METALS

Iron	ppm	7	8	8	16
Copper	ppm	2	2	13	4
Lead	ppm	0	<1	1	2
Tin	ppm	0	<1	<1	1
Aluminum	ppm	<1	1	3	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	40	64	66	58
Nickel	ppm	0	<1	1	2
Titanium	ppm	<1	0	1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1813	1420	2058	1341
Magnesium	ppm	477	577	218	816
Zinc	ppm	1066	1189	1311	1238
Phosphorus	ppm	918	998	1069	1022
Barium	ppm	0	0	0	0
Boron	ppm	24	28	80	16

Depot: VOLVO8770
Unique No: 11019677
Signed: Wes Davis
Report Date: 10 May 2024



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GRAPHS

