



CONSTRUCTION EQUIPMENT

VOLVO A45G 352505 - DIESEL ENGINE



Sample No: VCP397502
Oil Type: MOBIL DELVAC 1300 SUPER 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP397502	VCP400533	VCP382753	VCP399580
Sample Date	14 May 2024	11 Mar 2024	21 Nov 2023	18 Jul 2023
Machine Hours	4446	4247	3910	3611
Oil Hours	0	0	300	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.2	13.2	13.1
Base Number (BN)	mg KOH/g	8.1	8.1	8.6	8.3
Oxidation (PA)	%	55	58	60	59

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 %	%	0.3	0.5	0.5	0.4
Nitration (PA)	%	64	75	68	73
Sulfation (PA)	%	52	55	55	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	7	4	6
Sodium	ppm	2	4	2	1
Potassium	ppm	5	3	2	3



WEAR METALS

Iron	ppm	6	16	5	8
Copper	ppm	<1	2	0	1
Lead	ppm	2	2	0	<1
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	3	6	2	2
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	54	16	13	12
Nickel	ppm	<1	3	1	1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	1519	1900	1370	1378
Magnesium	ppm	698	865	625	611
Zinc	ppm	938	1113	854	843
Phosphorus	ppm	801	991	763	710
Barium	ppm	0	<1	0	1
Boron	ppm	95	95	58	48

Depot: DUNBEL
Unique No: 11097242
Signed: Wes Davis
Report Date: 25 Jun 2024



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GRAPHS

