



CONSTRUCTION EQUIPMENT

VOLVO A45G 352505 - DIESEL ENGINE



Sample No: VCP382753
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP382753	VCP399580	VCP409135	VCP399578
Sample Date	21 Nov 2023	18 Jul 2023	08 Jul 2023	22 Mar 2023
Machine Hours	3910	3611	3142	2624
Oil Hours	300	500	500	350
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.1	13.0	13.0
Base Number (BN)	mg KOH/g	8.6	8.3	7.3	9.0
Oxidation (PA)	%	60	59	57	61

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 %	%	0.5	0.4	0.5	0.3
Nitration (PA)	%	68	73	78	62
Sulfation (PA)	%	55	55	57	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	5	6
Sodium	ppm	2	1	1	2
Potassium	ppm	2	3	4	<1



WEAR METALS

Iron	ppm	5	8	10	10
Copper	ppm	0	1	2	2
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	2	2	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	13	12	7	19
Nickel	ppm	1	1	3	▲ 6
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	1
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1370	1378	1353	1547
Magnesium	ppm	625	611	658	626
Zinc	ppm	854	843	845	871
Phosphorus	ppm	763	710	718	758
Barium	ppm	0	1	<1	0
Boron	ppm	58	48	52	79

Depot: DUNBEL
Unique No: 10765407
Signed: Wes Davis
Report Date: 30 Nov 2023



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GRAPHS

