



CONSTRUCTION EQUIPMENT

VOLVO A45GFS 352524 - DIESEL ENGINE



Sample No: VCP382749
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP382749	VCP423364	VCP409126	VCP391371
Sample Date	21 Nov 2023	18 Sep 2023	05 Jul 2023	22 Mar 2023
Machine Hours	3910	3723	3390	2883
Oil Hours	300	500	500	350
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.4	13.1	13.1
Base Number (BN)	mg KOH/g	8.6	9.1	7.5	8.8
Oxidation (PA)	%	58	57	57	63

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 %	%	0.7	0.4	0.6	0.5
Nitration (PA)	%	68	63	78	70
Sulfation (PA)	%	55	54	56	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	4
Sodium	ppm	2	<1	1	2
Potassium	ppm	2	3	4	0



WEAR METALS

Iron	ppm	8	8	14	10
Copper	ppm	<1	1	2	6
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	4	2	3	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	16	18	8	19
Nickel	ppm	3	2	3	2
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	1369	1368	1348	1536
Magnesium	ppm	645	653	645	622
Zinc	ppm	880	890	840	866
Phosphorus	ppm	772	759	713	754
Barium	ppm	0	<1	<1	0
Boron	ppm	53	55	53	68

Depot: DUNBEL
Unique No: 10765409
Signed: Wes Davis
Report Date: 30 Nov 2023



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GRAPHS

