



CONSTRUCTION EQUIPMENT

VOLVO A45G 3520Z - DIESEL ENGINE



Sample No: VCP382751
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP382751	VCP365365	VCP409129	VCP392550
Sample Date	21 Nov 2023	18 Sep 2023	05 Jul 2023	22 Mar 2023
Machine Hours	6163	5720	5383	4982
Oil Hours	400	500	500	300
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.6	13.5	13.2
Base Number (BN)	mg KOH/g	8.1	8.6	7.3	8.3
Oxidation (PA)	%	66	63	67	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	0.3	0.3	0.3
Nitration (PA)	%	80	76	91	78
Sulfation (PA)	%	57	57	61	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	5	4
Sodium	ppm	2	2	2	2
Potassium	ppm	3	3	3	<1



WEAR METALS

Iron	ppm	6	6	9	7
Copper	ppm	0	<1	1	3
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	0	<1	0
Aluminum	ppm	4	4	4	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	15	22	11	27
Nickel	ppm	1	<1	<1	<1
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	1446	1374	1444	1512
Magnesium	ppm	672	676	675	689
Zinc	ppm	916	932	905	953
Phosphorus	ppm	811	775	726	811
Barium	ppm	0	<1	<1	0
Boron	ppm	49	46	42	55

Depot: DUNBEL
Unique No: 10765406
Signed: Wes Davis
Report Date: 30 Nov 2023



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VOLVO GRAPHS

