



CONSTRUCTION EQUIPMENT

VOLVO A45G 3520Z - DIESEL ENGINE



Sample No: VCP365365
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP365365	VCP409129	VCP392550	VCP391374
Sample Date	18 Sep 2023	05 Jul 2023	22 Mar 2023	03 Jan 2023
Machine Hours	5720	5383	4982	4608
Oil Hours	500	500	300	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.6	13.5	13.2	13.9
Base Number (BN)	mg KOH/g	8.6	7.3	8.3	9.6
Oxidation (PA)	%	63	67	67	62



CONTAMINATION

Soot %	%	0.3	0.3	0.3	0.2
Nitration (PA)	%	76	91	78	68
Sulfation (PA)	%	57	61	57	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	4	6
Sodium	ppm	2	2	2	2
Potassium	ppm	3	3	<1	<1



WEAR METALS

Iron	ppm	6	9	7	8
Copper	ppm	<1	1	3	6
Lead	ppm	<1	<1	0	1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	4	4	3	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	22	11	27	60
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1374	1444	1512	1057
Magnesium	ppm	676	675	689	927
Zinc	ppm	932	905	953	1158
Phosphorus	ppm	775	726	811	1006
Barium	ppm	<1	<1	0	0
Boron	ppm	46	42	55	2

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.

Depot: DUNBEL
Unique No: 10701742
Signed: Wes Davis
Report Date: 20 Oct 2023



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GRAPHS

