



CONSTRUCTION EQUIPMENT

VOLVO A45GFS 352524 - DIESEL ENGINE



Sample No: VCP409126
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP409126	VCP391371	VCP357231	VCP357228
Sample Date	05 Jul 2023	22 Mar 2023	03 Jan 2023	24 Sep 2022
Machine Hours	3390	2883	2534	2057
Oil Hours	500	350	480	400
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.1	13.0	13.2
Base Number (BN)	mg KOH/g	7.5	8.8	8.2	9.6
Oxidation (PA)	%	57	63	64	64

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

Soot %	%	0.6	0.5	0.6	0.6
Nitration (PA)	%	78	70	82	75
Sulfation (PA)	%	56	56	56	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	7	7
Sodium	ppm	1	2	3	2
Potassium	ppm	4	0	1	<1



WEAR METALS

Iron	ppm	14	10	14	8
Copper	ppm	2	6	12	44
Lead	ppm	<1	0	1	2
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	3	2	3	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	8	19	18	23
Nickel	ppm	3	2	▲ 8	2
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	1	<1	1
Vanadium	ppm	<1	0	0	1



ADDITIVES

Calcium	ppm	1348	1536	1487	1408
Magnesium	ppm	645	622	626	683
Zinc	ppm	840	866	821	917
Phosphorus	ppm	713	754	731	800
Barium	ppm	<1	0	0	0
Boron	ppm	53	68	49	49

Depot: DUNBEL
Unique No: 10701744
Signed: Wes Davis
Report Date: 20 Oct 2023



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GRAPHS

