



CONSTRUCTION EQUIPMENT

VOLVO A45G 352505 - DIESEL ENGINE



Sample No: VCP399580
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP399580	VCP409135	VCP399578	VCP391370
Sample Date	18 Jul 2023	08 Jul 2023	22 Mar 2023	03 Jan 2023
Machine Hours	3611	3142	2624	2392
Oil Hours	500	500	350	400
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.0	13.0	13.0
Base Number (BN)	mg KOH/g	8.3	7.3	9.0	8.8
Oxidation (PA)	%	59	57	61	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

Soot %	%	0.4	0.5	0.3	0.4
Nitration (PA)	%	73	78	62	77
Sulfation (PA)	%	55	57	55	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	6	8
Sodium	ppm	1	1	2	<1
Potassium	ppm	3	4	<1	2



WEAR METALS

Iron	ppm	8	10	10	10
Copper	ppm	1	2	2	1
Lead	ppm	<1	<1	0	2
Tin	ppm	<1	<1	0	1
Aluminum	ppm	2	2	2	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	12	7	19	17
Nickel	ppm	1	3	▲ 6	▲ 8
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1378	1353	1547	1627
Magnesium	ppm	611	658	626	650
Zinc	ppm	843	845	871	903
Phosphorus	ppm	710	718	758	739
Barium	ppm	1	<1	0	0
Boron	ppm	48	52	79	52

Depot: DUNBEL
Unique No: 10701751
Signed: Wes Davis
Report Date: 20 Oct 2023



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GRAPHS

