



CONSTRUCTION EQUIPMENT

VOLVO A45GFS 352516 - DIESEL ENGINE



Sample No: VCP398397
Oil Type: MOBIL DELVAC 1300 SUPER 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP398397	VCP395623	VCP382713	VCP409156
Sample Date	14 May 2024	11 Mar 2024	21 Nov 2023	18 Sep 2023
Machine Hours	5236	5068	4618	4264
Oil Hours	0	0	400	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.3	13.5	13.2
Base Number (BN)	mg KOH/g	8.0	7.6	7.7	7.8
Oxidation (PA)	%	56	60	64	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 %	%	0.3	0.5	0.5	0.5
Nitration (PA)	%	69	83	83	82
Sulfation (PA)	%	52	57	58	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	4	4
Sodium	ppm	1	2	2	1
Potassium	ppm	5	3	2	4



WEAR METALS

Iron	ppm	5	11	10	8
Copper	ppm	1	2	<1	<1
Lead	ppm	2	<1	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	3	3	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	53	16	15	13
Nickel	ppm	<1	2	2	1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	1526	1417	1379	1476
Magnesium	ppm	702	652	644	646
Zinc	ppm	951	867	884	894
Phosphorus	ppm	805	719	756	748
Barium	ppm	0	<1	0	<1
Boron	ppm	84	63	36	39

Depot: DUNBEL
Unique No: 11097244
Signed: Wes Davis
Report Date: 25 Jun 2024



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GRAPHS

