



CONSTRUCTION EQUIPMENT

VOLVO A45GFS 352524 - DIESEL ENGINE



Sample No: VCP400536
Oil Type: MOBIL DELVAC 1300 SUPER 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP400536	VCP409141	VCP382749	VCP423364
Sample Date	14 May 2024	26 Feb 2024	21 Nov 2023	18 Sep 2023
Machine Hours	4634	4351	3910	3723
Oil Hours	300	0	300	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.3	13.3	13.4
Base Number (BN)	mg KOH/g	7.6	8.7	8.6	9.1
Oxidation (PA)	%	53	57	58	57

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 %	%	0.7	0.6	0.7	0.4
Nitration (PA)	%	73	68	68	63
Sulfation (PA)	%	52	54	55	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	4	4
Sodium	ppm	2	2	2	<1
Potassium	ppm	5	3	2	3



WEAR METALS

Iron	ppm	10	10	8	8
Copper	ppm	2	2	<1	1
Lead	ppm	2	<1	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	6	5	4	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	72	12	16	18
Nickel	ppm	4	4	3	2
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	1529	1421	1369	1368
Magnesium	ppm	709	642	645	653
Zinc	ppm	958	860	880	890
Phosphorus	ppm	809	753	772	759
Barium	ppm	0	<1	0	<1
Boron	ppm	90	78	53	55

Depot: DUNBEL
Unique No: 11097240
Signed: Don Baldrige
Report Date: 26 Jun 2024



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GRAPHS

