



CONSTRUCTION EQUIPMENT

VOLVO A45GFS 352524 - DIESEL ENGINE



Sample No: VCP423364
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP423364	VCP409126	VCP391371	VCP357231
Sample Date	18 Sep 2023	05 Jul 2023	22 Mar 2023	03 Jan 2023
Machine Hours	3723	3390	2883	2534
Oil Hours	500	500	350	480
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

DUNN CONSTRUCTION INC
 318 N 14TH ST
 BELLEVUE, IA
 US 52031
 Contact: STEVE DUNN
 DUNNCONSTRUCTINC@GMAIL.COM
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	13.4	13.1	13.1	13.0
Base Number (BN)	mg KOH/g	9.1	7.5	8.8	8.2
Oxidation (PA)	%	57	57	63	64



CONTAMINATION

Soot %	%	0.4	0.6	0.5	0.6
Nitration (PA)	%	63	78	70	82
Sulfation (PA)	%	54	56	56	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	4	7
Sodium	ppm	<1	1	2	3
Potassium	ppm	3	4	0	1

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.



WEAR METALS

Iron	ppm	8	14	10	14
Copper	ppm	1	2	6	12
Lead	ppm	<1	<1	0	1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	2	3	2	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	18	8	19	18
Nickel	ppm	2	3	2	▲ 8
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	1368	1348	1536	1487
Magnesium	ppm	653	645	622	626
Zinc	ppm	890	840	866	821
Phosphorus	ppm	759	713	754	731
Barium	ppm	<1	<1	0	0
Boron	ppm	55	53	68	49

Depot: DUNBEL
Unique No: 10701750
Signed: Wes Davis
Report Date: 20 Oct 2023



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GRAPHS

