



CONSTRUCTION EQUIPMENT

VOLVO A45G 3520Z - DIESEL ENGINE



Sample No: VCP409129
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP409129	VCP392550	VCP391374	VCP338619
Sample Date	05 Jul 2023	22 Mar 2023	03 Jan 2023	04 Mar 2022
Machine Hours	5383	4982	4608	3839
Oil Hours	500	300	0	0
Oil Changed	Changed	Not Chngd	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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	13.5	13.2	13.9	13.3
Base Number (BN)	mg KOH/g	7.3	8.3	9.6	5.6
Oxidation (PA)	%	67	67	62	92



CONTAMINATION

Soot %	%	0.3	0.3	0.2	0.7
Nitration (PA)	%	91	78	68	110
Sulfation (PA)	%	61	57	53	78
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	6	8
Sodium	ppm	2	2	2	2
Potassium	ppm	3	<1	<1	0

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	9	7	8	25
Copper	ppm	1	3	6	11
Lead	ppm	<1	0	1	2
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	4	3	2	6
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	11	27	60	112
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1444	1512	1057	2226
Magnesium	ppm	675	689	927	224
Zinc	ppm	905	953	1158	1150
Phosphorus	ppm	726	811	1006	1004
Barium	ppm	<1	0	0	0
Boron	ppm	42	55	2	32

Depot: DUNBEL
Unique No: 10701749
Signed: Wes Davis
Report Date: 20 Oct 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

