



CONSTRUCTION EQUIPMENT

VOLVO A45G 342590 - DIESEL ENGINE



Sample No: VCP421789
Oil Type: DIESEL ENGINE OIL SAE 40
Job No:



SAMPLE INFORMATION

Sample Number	VCP421789	VCP182318	VCP296828	VCP141070
Sample Date	18 Apr 2024	28 Jul 2023	14 Jun 2022	22 Jul 2021
Machine Hours	4458	4036	3022	2052
Oil Hours	425	503	495	513
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	ATTENTION	NORMAL	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.3	12.7	10.8	12.8
Base Number (BN)	mg KOH/g	7.8	7.1	8.3	---
Oxidation (PA)	%	49	51	39	45



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.3	0.2	0.4
Nitration (PA)	%	61	69	50	66
Sulfation (PA)	%	49	52	45	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.2	<1.0
Silicon	ppm	5	4	5	4
Sodium	ppm	4	3	0	<1
Potassium	ppm	1	<1	0	<1



WEAR METALS

Iron	ppm	17	12	8	19
Copper	ppm	8	14	4	62
Lead	ppm	<1	0	<1	<1
Tin	ppm	2	<1	<1	1
Aluminum	ppm	3	2	2	0
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	46	40	6	10
Nickel	ppm	3	<1	<1	3
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1523	1798	3566	2359
Magnesium	ppm	628	600	35	126
Zinc	ppm	1111	1250	1064	1040
Phosphorus	ppm	969	1023	850	951
Barium	ppm	0	0	0	0
Boron	ppm	9	6	10	6

Diagnosis

The oil change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: GLOPLE
Unique No: 11008809
Signed: Sean Felton
Report Date: 08 May 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

