



CONSTRUCTION EQUIPMENT

VOLVO A60H 340039 - DIESEL ENGINE



Sample No: VCP413326
Oil Type: DIESEL ENGINE OIL SAE 40
Job No:



SAMPLE INFORMATION

Sample Number	VCP413326	VCP388773	VCP365243	VCP354406
Sample Date	20 Jun 2023	29 Nov 2022	15 Aug 2022	04 May 2022
Machine Hours	7542	7061	6529	6042
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	13.0	12.9	12.7
Base Number (BN)	mg KOH/g	10.3	11.1	11.2	10.5
Oxidation (PA)	%	82	86	84	78



CONTAMINATION

Soot %	%	0.3	0.4	0.4	0.3
Nitration (PA)	%	63	67	66	68
Sulfation (PA)	%	62	66	65	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	4	4
Sodium	ppm	6	10	21	16
Potassium	ppm	2	1	6	3



WEAR METALS

Iron	ppm	9	9	8	8
Copper	ppm	2	<1	2	1
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	1	4	7	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	46	42	41	40
Nickel	ppm	0	1	<1	1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1746	1635	1560	1575
Magnesium	ppm	548	510	469	548
Zinc	ppm	1180	1087	1078	1021
Phosphorus	ppm	955	890	896	887
Barium	ppm	14	0	1	0
Boron	ppm	54	39	34	55

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.

Depot: SAIBIR
Unique No: 10538098
Signed: Don Baldrige
Report Date: 04 Jul 2023



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GRAPHS

