



CONSTRUCTION EQUIPMENT

SWO-066190 VOLVO A60H 340039 - DIESEL ENGINE



Sample No: VCP433643
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: SWO-066190



SAMPLE INFORMATION

Sample Number	VCP433643	VCP413326	VCP388773	VCP365243
Sample Date	27 Sep 2023	20 Jun 2023	29 Nov 2022	15 Aug 2022
Machine Hours	8052	7542	7061	6529
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.7	13.0	12.9
Base Number (BN)	mg KOH/g	9.1	10.3	11.1	11.2
Oxidation (PA)	%	74	82	86	84



CONTAMINATION

Soot %	%	0.3	0.3	0.4	0.4
Nitration (PA)	%	56	63	67	66
Sulfation (PA)	%	58	62	66	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	5	4
Sodium	ppm	7	6	10	21
Potassium	ppm	4	2	1	6



WEAR METALS

Iron	ppm	6	9	9	8
Copper	ppm	3	2	<1	2
Lead	ppm	1	0	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	4	1	4	7
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	32	46	42	41
Nickel	ppm	<1	0	1	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	1118	1746	1635	1560
Magnesium	ppm	350	548	510	469
Zinc	ppm	648	1180	1087	1078
Phosphorus	ppm	602	955	890	896
Barium	ppm	0	14	0	1
Boron	ppm	23	54	39	34

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 acceptable for the time in service.

Depot: SAIBIR
Unique No: 10672665
Signed: Don Baldrige
Report Date: 03 Oct 2023



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VOLVO GRAPHS

