



CONSTRUCTION EQUIPMENT

SWO-064541 VOLVO A60H 350051 - DIESEL ENGINE



Sample No: VCP416415
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: SWO-064541



SAMPLE INFORMATION

Sample Number	VCP416415	VCP424707	VCP393638	VCP364259
Sample Date	03 Aug 2023	28 Apr 2023	21 Dec 2022	31 Aug 2022
Machine Hours	6858	6390	5828	5303
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	12.9	12.7	12.7	12.9
Base Number (BN)	mg KOH/g	9.4	8.8	10.2	10.9
Oxidation (PA)	%	77	74	67	79



CONTAMINATION

Soot %	%	0.6	0.3	0.3	0.3
Nitration (PA)	%	58	54	66	61
Sulfation (PA)	%	60	55	58	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	5	4
Sodium	ppm	0	6	31	2
Potassium	ppm	2	<1	3	1



WEAR METALS

Iron	ppm	12	8	12	7
Copper	ppm	2	0	1	1
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	8	4	6	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	40	55	45
Nickel	ppm	1	<1	1	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1683	1576	1290	1488
Magnesium	ppm	479	532	810	546
Zinc	ppm	1115	1078	1150	974
Phosphorus	ppm	935	875	954	791
Barium	ppm	0	0	0	0
Boron	ppm	37	43	14	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 suitable for further service.

Depot: SAIBIR
Unique No: 10589082
Signed: Don Baldrige
Report Date: 08 Aug 2023



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GRAPHS

