



CONSTRUCTION EQUIPMENT

SWO-063883 VOLVO A60H 350067 - DIESEL ENGINE



Sample No: VCP404961
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: SWO-063883



SAMPLE INFORMATION

Sample Number	VCP404961	VCP410132	VCP365626	VCP354867
Sample Date	12 Jul 2023	31 Mar 2023	09 Nov 2022	02 Aug 2022
Machine Hours	5889	5382	4893	4363
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	12.6	12.8	13.09
Base Number (BN)	mg KOH/g	9.1	9.8	10.2	11.3
Oxidation (PA)	%	79	76	68	84



CONTAMINATION

Soot %	%	0.5	0.3	0.5	0.5
Nitration (PA)	%	63	60	68	66
Sulfation (PA)	%	61	60	59	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	3	6
Sodium	ppm	0	2	0	0
Potassium	ppm	1	<1	2	<1



WEAR METALS

Iron	ppm	10	8	8	10
Copper	ppm	1	2	1	1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	43	46	57	42
Nickel	ppm	2	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1642	1578	1248	1677
Magnesium	ppm	484	540	797	507
Zinc	ppm	1081	1094	1180	1162
Phosphorus	ppm	929	903	977	985
Barium	ppm	0	0	0	0
Boron	ppm	38	51	15	42

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: 10561120
Signed: Don Baldrige
Report Date: 18 Jul 2023



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GRAPHS

