



CONSTRUCTION EQUIPMENT

SWO-064954 VOLVO A45G 342096 - DIESEL ENGINE



Sample No: VCP411741
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: SWO-064954



SAMPLE INFORMATION

Sample Number	VCP411741	VCP404606	VCP393682	VCP337683
Sample Date	22 Aug 2023	08 May 2023	16 Dec 2022	23 Aug 2022
Machine Hours	9107	8608	8113	7528
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	12.6	12.8	12.8	12.8
Base Number (BN)	mg KOH/g	9.5	10.3	11.2	11.5
Oxidation (PA)	%	75	82	86	84



CONTAMINATION

Soot %	%	0.2	0.2	0.3	0.3
Nitration (PA)	%	53	58	66	63
Sulfation (PA)	%	58	61	65	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	4	4
Sodium	ppm	3	0	0	<1
Potassium	ppm	3	1	1	0



WEAR METALS

Iron	ppm	4	5	6	5
Copper	ppm	<1	<1	<1	<1
Lead	ppm	1	0	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	<1	0	<1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	40	43	39	40
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1641	1706	1572	1593
Magnesium	ppm	463	488	454	488
Zinc	ppm	908	1109	1004	1053
Phosphorus	ppm	740	935	859	858
Barium	ppm	0	0	0	<1
Boron	ppm	41	55	42	44

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: 10622174
Signed: Sean Felton
Report Date: 29 Aug 2023



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GRAPHS

