



CONSTRUCTION EQUIPMENT

SWO-064224 VOLVO A45G 352736 - DIESEL ENGINE



Sample No: VCP425026
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-064224



SAMPLE INFORMATION

Sample Number	VCP425026	VCP400728	VCP404346	VCP351937
Sample Date	01 Aug 2023	02 May 2023	07 Dec 2022	19 Sep 2022
Machine Hours	7719	3396	2918	2448
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	12.7	12.6	12.8	12.4
Base Number (BN)	mg KOH/g	10.2	8.7	11.5	8.4
Oxidation (PA)	%	81	75	82	69



CONTAMINATION

Soot %	%	0.4	0.3	0.3	0.5
Nitration (PA)	%	58	55	66	80
Sulfation (PA)	%	62	57	65	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	2	7
Sodium	ppm	3	2	0	6
Potassium	ppm	<1	0	1	2



WEAR METALS

Iron	ppm	7	10	7	14
Copper	ppm	3	21	39	231
Lead	ppm	1	<1	<1	1
Tin	ppm	<1	1	<1	2
Aluminum	ppm	2	2	1	3
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	42	43	39	30
Nickel	ppm	<1	3	0	2
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1772	1796	1637	1478
Magnesium	ppm	540	552	472	572
Zinc	ppm	1195	1097	1018	892
Phosphorus	ppm	983	963	868	739
Barium	ppm	0	0	0	0
Boron	ppm	39	52	50	38

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: 10587685
Signed: Doug Bogart
Report Date: 06 Aug 2023

VOLVO GRAPHS

