



CONSTRUCTION EQUIPMENT

SWO-064668 VOLVO A45G 352639 - DIESEL ENGINE



Sample No: VCP406861
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-064668



SAMPLE INFORMATION

Sample Number	VCP406861	VCP410476	VCP395238	VCP368333
Sample Date	07 Aug 2023	12 May 2023	17 Feb 2023	08 Nov 2022
Machine Hours	4377	3923	3418	2948
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	12.9	12.7	12.8
Base Number (BN)	mg KOH/g	10.6	10.5	10.5	11.2
Oxidation (PA)	%	79	81	78	80

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.



CONTAMINATION

Soot %	%	0.2	0.2	0.3	0.4
Nitration (PA)	%	53	58	61	68
Sulfation (PA)	%	60	62	60	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	5	4
Sodium	ppm	0	2	<1	<1
Potassium	ppm	<1	0	<1	1



WEAR METALS

Iron	ppm	4	7	9	9
Copper	ppm	5	1	3	4
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	<1	3	<1	2
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	44	41	45	42
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1795	1749	1667	1660
Magnesium	ppm	491	515	479	499
Zinc	ppm	1156	1134	1080	1095
Phosphorus	ppm	980	931	919	913
Barium	ppm	2	0	2	0
Boron	ppm	65	59	57	47

Depot: SAIBIR

Unique No: 10603058

Signed: Don Baldrige

Report Date: 15 Aug 2023



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GRAPHS

