



CONSTRUCTION EQUIPMENT

VOLVO A45G 342096 - DIESEL ENGINE



Sample No: VCP454700
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP454700	VCP438717	VCP431008	VCP411741
Sample Date	21 May 2024	02 Apr 2024	13 Nov 2023	22 Aug 2023
Machine Hours	10526	10079	9583	9107
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC
 4400 LEWISBURG RD
 BIRMINGHAM, AL
 US 35207
 Contact: STEPHANI BRITTON
 sbritton@saiia.com;doug.bogart@wearcheck.com
 T: (205)943-2268
 F: (205)943-2269



OIL CONDITION

Visc @ 100°C	cSt	12.7	12.6	13.0	12.6
Base Number (BN)	mg KOH/g	9.6	6.4	9.5	9.5
Oxidation (PA)	%	72	63	70	75

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.3	0.2	0.2
Nitration (PA)	%	59	78	53	53
Sulfation (PA)	%	58	51	55	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	3	3	4
Sodium	ppm	2	2	2	3
Potassium	ppm	2	2	0	3



WEAR METALS

Iron	ppm	13	4	2	4
Copper	ppm	1	0	<1	<1
Lead	ppm	<1	1	0	1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	4	5	<1	1
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	48	105	46	40
Nickel	ppm	1	2	0	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	<1	<1



ADDITIVES

Calcium	ppm	1538	1355	1428	1641
Magnesium	ppm	506	654	625	463
Zinc	ppm	1079	927	1124	908
Phosphorus	ppm	997	795	1008	740
Barium	ppm	1	0	0	0
Boron	ppm	48	88	31	41

Depot: SAIBIR
Unique No: 11057063
Signed: Don Baldrige
Report Date: 31 May 2024



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GRAPHS

