



CONSTRUCTION EQUIPMENT

VOLVO A45G 352916 - DIESEL ENGINE



Sample No: VCP450926
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP450926	VCP431068	VCP432938	VCP418153
Sample Date	08 May 2024	26 Jan 2024	11 Oct 2023	25 Jul 2023
Machine Hours	4510	4034	3517	3005
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	12.8	12.8	12.8	12.5
Base Number (BN)	mg KOH/g	9.6	9.8	10.1	9.8
Oxidation (PA)	%	76	77	79	76

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.6	0.5	0.4
Nitration (PA)	%	61	62	59	57
Sulfation (PA)	%	59	60	62	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	7	6
Sodium	ppm	<1	2	2	3
Potassium	ppm	2	2	0	0



WEAR METALS

Iron	ppm	9	11	9	9
Copper	ppm	2	1	2	6
Lead	ppm	<1	1	0	0
Tin	ppm	2	1	<1	<1
Aluminum	ppm	2	3	<1	2
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	44	40	39	48
Nickel	ppm	2	5	1	1
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1692	1571	1581	1804
Magnesium	ppm	499	518	432	530
Zinc	ppm	1119	1129	922	1002
Phosphorus	ppm	970	973	783	832
Barium	ppm	0	0	0	0
Boron	ppm	53	38	33	40

Depot: SAIBIR
Unique No: 11035292
Signed: Sean Felton
Report Date: 21 May 2024



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GRAPHS

