



CONSTRUCTION EQUIPMENT

SWO-068706 VOLVO A45G 352134 - DIESEL ENGINE



Sample No: VCP441902
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-068706



SAMPLE INFORMATION

Sample Number	VCP441902	VCP428965	VCP435398	VCP416406
Sample Date	04 Jan 2024	22 Nov 2023	26 Sep 2023	31 Jul 2023
Machine Hours	8960	8724	8228	7719
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	12.9	12.9	12.7
Base Number (BN)	mg KOH/g	7.4	9.1	9.7	10.0
Oxidation (PA)	%	65	81	83	83

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 %	%	0.2	0.3	0.3	0.3
Nitration (PA)	%	73	68	63	64
Sulfation (PA)	%	52	61	62	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	6	5
Sodium	ppm	0	2	2	2
Potassium	ppm	1	0	<1	0



WEAR METALS

Iron	ppm	0	5	6	6
Copper	ppm	2	<1	<1	<1
Lead	ppm	1	0	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	4	1	4	3
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	100	40	42	38
Nickel	ppm	2	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1342	1740	1647	1742
Magnesium	ppm	686	517	483	501
Zinc	ppm	976	1096	1121	1187
Phosphorus	ppm	783	955	923	954
Barium	ppm	0	0	0	0
Boron	ppm	90	35	34	34

Depot: SAIBIR

Unique No: 10830440

Signed: Don Baldrige

Report Date: 15 Jan 2024



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GRAPHS

