



CONSTRUCTION EQUIPMENT

70967 VOLVO A45G 352798 - DIESEL ENGINE



Sample No: VCP445506
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 70967



SAMPLE INFORMATION

Sample Number	VCP445506	VCP408629	VCP421509	VCP419903
Sample Date	04 Apr 2024	06 Nov 2023	27 Jun 2023	24 Mar 2023
Machine Hours	3950	3530	3031	2640
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

COWIN EQUIPMENT COMPANY
 7950 PITTMAN AVE
 PENSACOLA, FL
 US 32534
 Contact: HUGH DOBBS
 HDOBBS@COWIN.COM
 T: (850)479-3004
 F: (850)474-1602

OIL CONDITION

Visc @ 100°C	cSt	12.4	12.4	12.7	12.7
Base Number (BN)	mg KOH/g	8.2	10.2	10.7	10.1
Oxidation (PA)	%	76	80	81	80

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.3	0.2	0.3
Nitration (PA)	%	62	54	55	59
Sulfation (PA)	%	58	61	62	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.5	<1.0	<1.0
Silicon	ppm	8	6	5	7
Sodium	ppm	3	1	2	2
Potassium	ppm	2	0	<1	0

WEAR METALS

Iron	ppm	9	3	5	7
Copper	ppm	2	0	<1	<1
Lead	ppm	1	0	<1	<1
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	5	2	3	2
Chromium	ppm	1	0	<1	<1
Molybdenum	ppm	65	39	43	44
Nickel	ppm	4	1	4	4
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	2
Manganese	ppm	1	<1	<1	1
Vanadium	ppm	<1	0	<1	0

ADDITIVES

Calcium	ppm	1524	1612	1832	1820
Magnesium	ppm	555	510	550	564
Zinc	ppm	983	1026	1091	1038
Phosphorus	ppm	847	855	897	867
Barium	ppm	<1	0	0	0
Boron	ppm	71	45	52	54

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: VOLVO8247
Unique No: 10967646
Signed: Wes Davis
Report Date: 10 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS

