



CONSTRUCTION EQUIPMENT

715594 VOLVO A40G 352851 - DIESEL ENGINE



Sample No: VCP440211
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 715594



SAMPLE INFORMATION

Sample Number	VCP440211	VCP429242	VCP411553	VCP420265
Sample Date	31 May 2024	06 Nov 2023	12 Jul 2023	12 Apr 2023
Machine Hours	5237	4099	3635	3090
Oil Hours	500	500	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: PM Services
 PMServices@ripaconstruction.com
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	12.0	12.2	12.4	12.3
Base Number (BN)	mg KOH/g	8.6	9.7	9.3	8.3
Oxidation (PA)	%	76	77	78	75

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	80	64	67	64
Sulfation (PA)	%	58	59	58	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.5
Silicon	ppm	6	4	5	5
Sodium	ppm	66	6	6	4
Potassium	ppm	51	3	1	0

WEAR METALS

Iron	ppm	7	2	5	6
Copper	ppm	2	3	2	4
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	3	1	0	1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	46	43	45	45
Nickel	ppm	1	1	2	2
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	1597	1527	1757	1618
Magnesium	ppm	597	499	518	517
Zinc	ppm	1085	1090	1127	1100
Phosphorus	ppm	942	907	947	927
Barium	ppm	0	0	0	0
Boron	ppm	20	32	31	40

Diagnosis

Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. 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.

Depot: RIPTAM
Unique No: 11126319
Signed: Sean Felton
Report Date: 18 Jul 2024



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VOLVO GRAPHS

