



CONSTRUCTION EQUIPMENT

567604 VOLVO A40G 342177 - DIESEL ENGINE



Sample No: VCP417568
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 567604



SAMPLE INFORMATION

Sample Number	VCP417568	VCP358089	VCP373170	VCP332008
Sample Date	29 Jun 2023	12 Sep 2022	19 May 2022	02 Mar 2022
Machine Hours	10619	9334	8694	8227
Oil Hours	500	500	500	1500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: ROBERT TURNER
 rturner@ripatampa.com
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	█ 12.7	█ 13.0	█ 13.1	█ 12.8
Base Number (BN)	mg KOH/g	█ 9.2	█ 11.0	█ 9.9	█ 11.3
Oxidation (PA)	%	79	87	79	87

CONTAMINATION

Soot %	%	█ 0.5	█ 0.5	█ 0.3	█ 0.3
Nitration (PA)	%	69	72	60	63
Sulfation (PA)	%	60	66	60	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	█ 3	█ 6	█ 4	█ 5
Sodium	ppm	█ 6	█ 6	█ 6	█ 6
Potassium	ppm	█ 0	█ 4	█ 0	█ 2

WEAR METALS

Iron	ppm	█ 9	█ 9	█ 8	█ 8
Copper	ppm	█ <1	█ 1	█ <1	█ <1
Lead	ppm	█ 0	█ 0	█ <1	█ 0
Tin	ppm	█ 0	█ <1	█ <1	█ <1
Aluminum	ppm	█ 6	█ 8	█ 5	█ 7
Chromium	ppm	█ <1	█ <1	█ <1	█ <1
Molybdenum	ppm	█ 46	█ 42	█ 40	█ 41
Nickel	ppm	█ 0	█ 0	█ 0	█ 0
Titanium	ppm	<1	0	0	0
Silver	ppm	█ 0	█ 0	█ 0	█ 0
Manganese	ppm	█ <1	█ <1	█ <1	█ <1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	█ 1738	█ 1696	█ 1614	█ 1824
Magnesium	ppm	█ 537	█ 487	█ 491	█ 543
Zinc	ppm	█ 1119	█ 1088	█ 1083	█ 1135
Phosphorus	ppm	█ 952	█ 913	█ 882	█ 1015
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 31	█ 24	█ 42	█ 37

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: RIPTAM
Unique No: 10573992
Signed: Wes Davis
Report Date: 27 Jul 2023



CONSTRUCTION EQUIPMENT



GRAPHS

