



CONSTRUCTION EQUIPMENT

593679 VOLVO A30G 742129 - DIESEL ENGINE



Sample No: VCP413072
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 593679



SAMPLE INFORMATION

Sample Number	VCP413072	VCP407860	VCP386646	VCP389878
Sample Date	12 Aug 2023	30 May 2023	21 Dec 2022	03 Oct 2022
Machine Hours	9111	8660	8052	7570
Oil Hours	500	0	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	ABNORMAL

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

OIL CONDITION

Visc @ 100°C	cSt	12.1	12.3	12.3	11.9
Base Number (BN)	mg KOH/g	9.3	8.9	9.6	10.9
Oxidation (PA)	%	78	72	78	83

CONTAMINATION

Soot %	%	0.4	0.4	0.3	0.3
Nitration (PA)	%	68	72	68	67
Sulfation (PA)	%	60	58	60	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	11	▲ 28
Sodium	ppm	1	0	0	3
Potassium	ppm	0	2	<1	0

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.

WEAR METALS

Iron	ppm	8	10	13	16
Copper	ppm	<1	1	2	6
Lead	ppm	0	<1	<1	1
Tin	ppm	<1	<1	1	2
Aluminum	ppm	2	0	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	38	42	37	39
Nickel	ppm	3	▲ 6	6	▲ 6
Titanium	ppm	4	17	14	6
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	3
Vanadium	ppm	0	0	<1	<1

ADDITIVES

Calcium	ppm	1577	1674	1696	1620
Magnesium	ppm	453	438	486	439
Zinc	ppm	1036	1075	1171	1051
Phosphorus	ppm	843	915	936	893
Barium	ppm	0	0	<1	8
Boron	ppm	19	42	41	41

Depot: RIPTAM
Unique No: 10636120
Signed: Don Baldrige
Report Date: 11 Sep 2023



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GRAPHS

