



CONSTRUCTION EQUIPMENT

RIPA VOLVO A30G 742569 - DIESEL ENGINE



Sample No: VCP411767
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: RIPA



SAMPLE INFORMATION

Sample Number	VCP411767	VCP386182	VCP367194	VCP375806
Sample Date	12 Jul 2023	15 Nov 2022	09 Sep 2022	16 Jun 2022
Machine Hours	7864	5291	4841	4394
Oil Hours	0	500	500	500
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	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	▲ 12.3	■ 12.7	■ 12.6
Base Number (BN)	mg KOH/g	■ 8.6	■ 10.6	■ 11.0	■ 10.8
Oxidation (PA)	%	82	86	87	86

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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

CONTAMINATION

Soot %	%	■ 0.4	■ 0.3	■ 0.3	■ 0.5
Nitration (PA)	%	76	69	67	73
Sulfation (PA)	%	61	66	66	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	■ 1.4	<1.0	<1.0
Silicon	ppm	■ 6	■ 3	■ 5	■ 4
Sodium	ppm	■ 2	■ 3	■ 2	■ 4
Potassium	ppm	■ <1	■ <1	■ <1	■ 1

WEAR METALS

Iron	ppm	■ 11	■ 6	■ 5	■ 8
Copper	ppm	■ <1	■ <1	■ <1	■ <1
Lead	ppm	■ <1	■ <1	■ 0	■ <1
Tin	ppm	■ 1	■ <1	■ <1	■ <1
Aluminum	ppm	■ 3	■ 1	■ <1	■ 1
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 63	■ 41	■ 40	■ 44
Nickel	ppm	■ <1	■ 0	■ 0	■ 0
Titanium	ppm	<1	0	0	0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	■ 1720	■ 1643	■ 1663	■ 1660
Magnesium	ppm	■ 488	■ 515	■ 472	■ 524
Zinc	ppm	■ 1173	■ 1116	■ 1077	■ 1131
Phosphorus	ppm	■ 950	■ 881	■ 907	■ 954
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 30	■ 29	■ 36	■ 32

Depot: RIPTAM
Unique No: 10605784
Signed: Don Baldrige
Report Date: 17 Aug 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

