



CONSTRUCTION EQUIPMENT

728646 VOLVO A30G 742110 - DIESEL ENGINE



Sample No: VCP443015
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 728646



SAMPLE INFORMATION

Sample Number	VCP443015	VCP444138	VCP432177	VCP386648
Sample Date	06 Jun 2024	27 Feb 2024	25 Jan 2024	29 Nov 2022
Machine Hours	12461	12015	11532	9561
Oil Hours	500	500	0	500
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

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

OIL CONDITION

Visc @ 100°C	cSt	11.7	12.1	12.3	12.0
Base Number (BN)	mg KOH/g	9.3	8.6	9.3	10.3
Oxidation (PA)	%	69	71	71	84

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.3	0.3
Nitration (PA)	%	58	63	61	66
Sulfation (PA)	%	57	56	56	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	3.0	<1.0	<1.0	1.9
Silicon	ppm	3	3	3	4
Sodium	ppm	4	2	3	<1
Potassium	ppm	<1	2	1	<1

Diagnosis
 Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

WEAR METALS

Iron	ppm	3	3	2	6
Copper	ppm	0	<1	0	<1
Lead	ppm	0	<1	0	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	<1	2	1	0
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	39	40	44	41
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1554	1593	1546	1670
Magnesium	ppm	549	465	384	485
Zinc	ppm	1038	1104	1024	1095
Phosphorus	ppm	920	912	885	915
Barium	ppm	0	0	<1	0
Boron	ppm	38	44	35	32

Depot: RIPTAM
Unique No: 11126320
Signed: Sean Felton
Report Date: 18 Jul 2024



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GRAPHS

