



CONSTRUCTION EQUIPMENT

VOLVO A30G 742111 - DIESEL ENGINE



Sample No: VCP445552
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP445552	VCP411357	VCP376232	VCP330265
Sample Date	02 Jul 2024	22 Apr 2023	01 Aug 2022	09 Mar 2022
Machine Hours	10502	9166	8256	1178
Oil Hours	0	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: PM Services
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 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	12.1	12.0	12.6	12.4
Base Number (BN)	mg KOH/g	9.1	9.4	11.1	9.8
Oxidation (PA)	%	76	75	85	84

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.5	0.5	0.3
Nitration (PA)	%	60	63	64	73
Sulfation (PA)	%	58	59	66	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.8	<1.0	<1.0
Silicon	ppm	6	4	4	9
Sodium	ppm	2	3	4	<1
Potassium	ppm	2	1	0	1



WEAR METALS

Iron	ppm	8	7	5	16
Copper	ppm	2	<1	<1	171
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	3	0	2	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	44	48	40	50
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1600	1490	1700	1615
Magnesium	ppm	576	570	500	623
Zinc	ppm	1151	1127	1103	1196
Phosphorus	ppm	987	916	912	993
Barium	ppm	0	0	0	0
Boron	ppm	40	26	48	20

Depot: RIPTAM
Unique No: 1113278
Signed: Wes Davis
Report Date: 09 Jul 2024



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GRAPHS

