



CONSTRUCTION EQUIPMENT

VOLVO A30G 742585 - DIESEL ENGINE



Sample No: VCP447045
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP447045	VCP425826	VCP403997	VCP386151
Sample Date	01 Apr 2024	29 Sep 2023	30 Mar 2023	01 Nov 2022
Machine Hours	6734	6229	5765	5235
Oil Hours	0	0	500	500
Oil Changed	Changed	N/A	Changed	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	12.4	11.9	11.9	12.4
Base Number (BN)	mg KOH/g	9.3	8.4	8.3	9.1
Oxidation (PA)	%	82	78	66	71

Diagnosis

Oil and filter change at the time of sampling has been noted. 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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.4	0.4	0.5
Nitration (PA)	%	70	69	80	83
Sulfation (PA)	%	61	60	58	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	2.7	1.4
Silicon	ppm	4	4	4	3
Sodium	ppm	<1	3	2	1
Potassium	ppm	1	<1	2	0



WEAR METALS

Iron	ppm	6	4	8	8
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	1	2	<1	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	47	69	63
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	2
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1560	1699	1409	1324
Magnesium	ppm	487	576	826	799
Zinc	ppm	1074	1264	1322	1249
Phosphorus	ppm	980	1057	1117	1033
Barium	ppm	1	0	0	0
Boron	ppm	38	30	14	10

Depot: RIPTAM
Unique No: 11057091
Signed: Don Baldrige
Report Date: 31 May 2024



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VOLVO GRAPHS

