



CONSTRUCTION EQUIPMENT

VOLVO A30G 742023 - DIESEL ENGINE



Sample No: VCP435940
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP435940	VCP436072	VCP381548	VCP367278
Sample Date	22 Jun 2024	11 Sep 2023	08 Mar 2023	26 Sep 2022
Machine Hours	9811	8246	7220	6676
Oil Hours	0	500	500	500
Oil Changed	Changed	Changed	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	12.1	11.4	11.8	11.9
Base Number (BN)	mg KOH/g	9.0	8.9	8.8	9.6
Oxidation (PA)	%	72	79	71	82

Diagnosis

No corrective action is recommended at this time. 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 %	%	0.2	0.3	0.3	0.4
Nitration (PA)	%	63	70	73	78
Sulfation (PA)	%	57	60	59	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	2.0
Silicon	ppm	3	5	4	10
Sodium	ppm	2	0	0	5
Potassium	ppm	2	1	1	<1



WEAR METALS

Iron	ppm	8	6	9	9
Copper	ppm	2	<1	4	17
Lead	ppm	<1	<1	<1	1
Tin	ppm	<1	<1	<1	2
Aluminum	ppm	4	0	2	3
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	38	44	49	48
Nickel	ppm	4	1	4	6
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	1



ADDITIVES

Calcium	ppm	1591	1473	1595	1658
Magnesium	ppm	508	474	543	453
Zinc	ppm	1108	1042	1146	1089
Phosphorus	ppm	952	868	942	907
Barium	ppm	0	1	2	0
Boron	ppm	44	19	17	16

Depot: RIPTAM
Unique No: 1113274
Signed: Sean Felton
Report Date: 09 Jul 2024



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VOLVO GRAPHS

