



CONSTRUCTION EQUIPMENT

VOLVO A25G 752214 - DIESEL ENGINE



Sample No: VCP454979
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP454979	VCP432497	VCP410370	VCP390675
Sample Date	05 May 2024	30 Oct 2023	07 Apr 2023	03 Oct 2022
Machine Hours	2913	2827	1594	507
Oil Hours	0	0	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ABNORMAL

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	12.3	12.1	10.9
Base Number (BN)	mg KOH/g	9.3	9.0	7.7	6.6
Oxidation (PA)	%	75	77	75	63

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 %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	74	69	61	93
Sulfation (PA)	%	57	58	56	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.6
Silicon	ppm	5	5	6	27
Sodium	ppm	3	0	3	2
Potassium	ppm	0	1	<1	4



WEAR METALS

Iron	ppm	5	6	7	21
Copper	ppm	3	6	21	334
Lead	ppm	0	0	<1	1
Tin	ppm	0	0	<1	4
Aluminum	ppm	1	1	0	4
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	49	45	45	85
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	3
Manganese	ppm	<1	0	<1	2
Vanadium	ppm	<1	0	<1	<1



ADDITIVES

Calcium	ppm	1743	1560	1481	2184
Magnesium	ppm	560	456	468	47
Zinc	ppm	1132	1032	1025	1185
Phosphorus	ppm	984	844	870	991
Barium	ppm	0	2	2	0
Boron	ppm	12	24	35	28

Depot: RIPTAM
Unique No: 11029624
Signed: Sean Felton
Report Date: 16 May 2024



CONSTRUCTION EQUIPMENT



GRAPHS

