



CONSTRUCTION EQUIPMENT

RENTAL VOLVO A40G 342362 - DIESEL ENGINE



Sample No: VCP432085
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: RENTAL



SAMPLE INFORMATION

Sample Number	VCP432085	VCP422910	VCP421227	VCP390286
Sample Date	01 Feb 2024	12 Jul 2023	04 Apr 2023	04 Jan 2023
Machine Hours	9397	8265	7654	7108
Oil Hours	0	0	500	0
Oil Changed	Changed	Changed	N/A	N/A
Sample Status	NORMAL	ATTENTION	ATTENTION	ATTENTION

RIPA AND ASSOCIATES

10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: ROBERT TURNER
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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.0	12.0	12.2
Base Number (BN)	mg KOH/g	9.7	9.2	8.3	9.5
Oxidation (PA)	%	79	76	77	80

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	0.2	0.2	0.2
Nitration (PA)	%	63	65	59	64
Sulfation (PA)	%	60	57	54	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	5	6
Sodium	ppm	0	5	3	0
Potassium	ppm	2	2	2	0



WEAR METALS

Iron	ppm	6	5	5	7
Copper	ppm	2	<1	<1	<1
Lead	ppm	<1	<1	<1	1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	0	3
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	41	44	47	45
Nickel	ppm	2	0	<1	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1578	1841	1570	1699
Magnesium	ppm	483	534	471	493
Zinc	ppm	1117	1175	1035	1139
Phosphorus	ppm	889	956	874	921
Barium	ppm	<1	0	2	0
Boron	ppm	36	23	34	30

Depot: RIPTAM
Unique No: 10870785
Signed: Don Baldrige
Report Date: 09 Feb 2024



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GRAPHS

