



CONSTRUCTION EQUIPMENT

VOLVO A40G 352909 - DIESEL ENGINE



Sample No: VCP447788
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP447788	VCP439701	VCP0007534	VCP408179
Sample Date	21 Jun 2024	03 Jan 2024	12 Jul 2023	20 Mar 2023
Machine Hours	2842	1972	0	562
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	ATTENTION	ATTENTION	NORMAL	ABNORMAL

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.com
 T:
 F: (239)481-3302



OIL CONDITION

Visc @ 100°C	cSt	12.3	12.1	13.3	10.3
Base Number (BN)	mg KOH/g	6.7	7.8	9.4	6.0
Oxidation (PA)	%	82	83	56	69



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.2	0.1
Nitration (PA)	%	82	77	51	75
Sulfation (PA)	%	60	60	52	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.9
Silicon	ppm	8	9	6	27
Sodium	ppm	1	0	6	2
Potassium	ppm	2	3	2	2

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.



WEAR METALS

Iron	ppm	8	8	6	11
Copper	ppm	11	18	3	234
Lead	ppm	<1	1	<1	2
Tin	ppm	<1	1	<1	2
Aluminum	ppm	2	2	3	2
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	49	48	57	72
Nickel	ppm	<1	<1	1	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	1
Manganese	ppm	0	<1	<1	3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1412	1923	1259	1962
Magnesium	ppm	632	571	940	159
Zinc	ppm	1130	1271	1335	1191
Phosphorus	ppm	868	1156	1086	878
Barium	ppm	0	10	0	0
Boron	ppm	10	21	7	30

Depot: VOLVO0090
Unique No: 11110460
Signed: Don Baldrige
Report Date: 05 Jul 2024



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GRAPHS

