



CONSTRUCTION EQUIPMENT

11721 VOLVO A35G 352057 - DIESEL ENGINE



Sample No: VCP439463
Oil Type: MOBIL 15W40
Job No: 11721



SAMPLE INFORMATION

Sample Number	VCP439463	VCP411851	VCP416835	VCP363735
Sample Date	19 Dec 2023	14 Aug 2023	01 Jun 2023	25 Jan 2023
Machine Hours	2380	2020	1800	1775
Oil Hours	0	250	0	250
Oil Changed	N/A	Changed	N/A	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	ATTENTION

JAMES J ANDERSON
 6958 TORRESDALE AVENUE
 PHILADELPHIA, PA
 US 19135
 Contact: JOHN HERBUT
 herb@jjaconstruction.com
 T: (215)850-9051
 F: (215)427-0208

OIL CONDITION

Visc @ 100°C	cSt	12.5	12.7	13.3	12.2
Base Number (BN)	mg KOH/g	7.2	9.5	9.0	6.8
Oxidation (PA)	%	45	68	42	57

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	62	48	54	58
Sulfation (PA)	%	47	55	45	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.9
Silicon	ppm	4	5	5	7
Sodium	ppm	0	0	<1	<1
Potassium	ppm	0	2	0	1

WEAR METALS

Iron	ppm	6	5	4	5
Copper	ppm	70	3	5	1
Lead	ppm	0	<1	0	2
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	2	5	1	2
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	24	40	33	73
Nickel	ppm	<1	2	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	2	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	<1	<1

ADDITIVES

Calcium	ppm	1852	1640	1843	1490
Magnesium	ppm	378	448	379	353
Zinc	ppm	1162	1108	1122	1214
Phosphorus	ppm	1006	927	954	949
Barium	ppm	0	0	0	0
Boron	ppm	7	58	55	292

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other 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.

Depot: JAAPHI
Unique No: 10802549
Signed: Jonathan Hester
Report Date: 26 Dec 2023



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GRAPHS

