



CONSTRUCTION EQUIPMENT

VOLVO A45G 342523 - DIESEL ENGINE



Sample No: VCP0008002
Oil Type: DIESEL ENGINE OIL SAE 40
Job No:



SAMPLE INFORMATION

Sample Number	VCP0008002	VCP419037	VCP0007982	VCP305483
Sample Date	02 Aug 2023	18 Jul 2023	06 Jul 2023	27 Apr 2021
Machine Hours	0	6542	0	3717
Oil Hours	0	500	0	500
Oil Changed	N/A	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

QGS - QUALITY GRASSES SERV/TCF LEASING
 17502 CR 672
 LITHIA, FL
 US 33547
 Contact: GARY ROGERS
 grogers@qgsdevelopment.com
 T: (813)323-4119
 F:

OIL CONDITION

Visc @ 100°C	cSt	13.4	13.1	13.1	12.8
Base Number (BN)	mg KOH/g	10.6	9.4	9.8	---
Oxidation (PA)	%	74	55	56	73

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.
 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

Soot %	%	0	0.1	0.1	0.4
Nitration (PA)	%	39	48	51	78
Sulfation (PA)	%	59	49	51	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	3	4	3
Sodium	ppm	1	1	<1	2
Potassium	ppm	<1	<1	2	<1

WEAR METALS

Iron	ppm	1	3	3	6
Copper	ppm	<1	3	2	2
Lead	ppm	<1	0	1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	1	2	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	62	61	31
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1657	1727	1633	1564
Magnesium	ppm	536	580	572	545
Zinc	ppm	1187	1353	1327	1000
Phosphorus	ppm	970	1120	1098	870
Barium	ppm	0	<1	0	0
Boron	ppm	71	4	2	38

Depot: QUALITFL
Unique No: 10587698
Signed: Wes Davis
Report Date: 04 Aug 2023



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VOLVO GRAPHS

