



CONSTRUCTION EQUIPMENT

VOLVO A45G 342545 - DIESEL ENGINE



Sample No: VCP0007593

Oil Type: NOT GIVEN

Job No:



SAMPLE INFORMATION

Sample Number	VCP0007593	VCP337074	VCP297923	VCP317939
Sample Date	06 Jul 2023	16 Sep 2021	04 Aug 2021	04 Aug 2021
Machine Hours	0	0	4102	4102
Oil Hours	0	0	1500	500
Oil Changed	N/A	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	ATTENTION



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	13.1	12.7	12.4	12.2
Base Number (BN)	mg KOH/g	7.3	---	---	---
Oxidation (PA)	%	54	80	76	83



CONTAMINATION

Soot %	%	0.2	0.1	0.3	0.2
Nitration (PA)	%	43	46	69	69
Sulfation (PA)	%	49	62	58	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.3
Silicon	ppm	10	6	6	4
Sodium	ppm	<1	<1	<1	2
Potassium	ppm	3	0	0	0



WEAR METALS

Iron	ppm	8	18	9	4
Copper	ppm	22	28	3	2
Lead	ppm	<1	15	0	1
Tin	ppm	2	2	<1	<1
Aluminum	ppm	3	8	0	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	60	40	45	43
Nickel	ppm	2	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1750	1629	1652	1518
Magnesium	ppm	538	499	489	465
Zinc	ppm	1354	1123	1069	1034
Phosphorus	ppm	1116	915	894	836
Barium	ppm	0	0	0	0
Boron	ppm	2	82	21	35

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 40 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample. 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.

Depot: QUALITFL
Unique No: 1054892
Signed: Wes Davis
Report Date: 11 Jul 2023



CONSTRUCTION EQUIPMENT



GRAPHS

