



CONSTRUCTION EQUIPMENT

9800 VOLVO A30G 752747 - DIESEL ENGINE



Sample No: VCP413793
Oil Type: CHEVRON 15W40
Job No: 9800



SAMPLE INFORMATION

Sample Number	VCP413793	VCP416660	VCP390118	---
Sample Date	18 Oct 2023	09 May 2023	17 Nov 2022	---
Machine Hours	1476	989	509	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	ATTENTION	ABNORMAL	---

GAINES & CO
 112 WESTMINISTER RD
 REISTERSTOWN, MD
 US 21136
 Contact: MICHAEL GLADFELTER

OIL CONDITION

Visc @ 100°C	cSt	▲ 12.4	▲ 12.2	▲ 10.6	---
Base Number (BN)	mg KOH/g	■ 7.0	■ 6.7	■ 7.2	---
Oxidation (PA)	%	60	65	65	---

T: (410)833-9833
 F: (410)833-9822

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.

CONTAMINATION

Soot %	%	■ 0.4	■ 0.3	■ 0.3	---
Nitration (PA)	%	60	66	90	---
Sulfation (PA)	%	59	64	58	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	■ 0.7	---
Silicon	ppm	■ 5	■ 9	■ 46	---
Sodium	ppm	■ 5	■ 1	■ 2	---
Potassium	ppm	■ 7	■ 0	■ 4	---

WEAR METALS

Iron	ppm	■ 14	■ 24	■ 38	---
Copper	ppm	■ 28	▲ 160	▲ 481	---
Lead	ppm	■ 0	■ 0	■ <1	---
Tin	ppm	■ <1	■ 1	■ 4	---
Aluminum	ppm	■ 2	■ 3	■ 4	---
Chromium	ppm	■ <1	■ <1	■ <1	---
Molybdenum	ppm	■ 93	■ 91	■ 86	---
Nickel	ppm	■ 1	■ 3	■ 1	---
Titanium	ppm	<1	2	<1	---
Silver	ppm	■ <1	■ <1	■ 2	---
Manganese	ppm	■ <1	■ 1	■ 5	---
Vanadium	ppm	<1	0	0	---

ADDITIVES

Calcium	ppm	■ 1404	■ 1618	■ 2186	---
Magnesium	ppm	■ 413	■ 375	77	---
Zinc	ppm	■ 1318	■ 1223	■ 1152	---
Phosphorus	ppm	■ 1080	■ 1024	■ 988	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 344	■ 384	■ 38	---

Depot: GAICOC
Unique No: 10701661
Signed: Don Baldrige
Report Date: 21 Oct 2023



CONSTRUCTION EQUIPMENT



GRAPHS

