



CONSTRUCTION EQUIPMENT

SWO-068391 VOLVO A45G 352969 - FRONT AXLE



Sample No: VCP414810
Oil Type: GEAR OIL SAE 80W90
Job No: SWO-068391



SAMPLE INFORMATION

Sample Number	VCP414810	VCP433938	VCP416635	VCP403264
Sample Date	20 Dec 2023	19 Sep 2023	21 Jun 2023	24 Jan 2023
Machine Hours	2980	2491	2003	1469
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

SAIIA CONSTRUCTION LLC

4400 LEWISBURG RD
 BIRMINGHAM, AL
 US 35207

Contact: STEPHANI BRITTON
 sbritton@saiia.com;doug.bogart@wearcheck.com
 T: (205)943-2268
 F: (205)943-2269



OIL CONDITION

Visc @ 40°C	cSt	▲ 50.5	▲ 50.9	▲ 50.9	▲ 51.98
-------------	-----	---------------	--------	--------	---------



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ 0	■ 4	■ 3	■ 2
Sodium	ppm	■ 0	■ 1	■ 3	■ 2
Potassium	ppm	■ 0	■ 3	■ 4	■ 2



WEAR METALS

Iron	ppm	■ 192	■ 283	■ 141	■ 69
Copper	ppm	■ 0	■ 1	■ 1	■ <1
Lead	ppm	■ 0	■ 0	■ 0	■ 0
Tin	ppm	■ 0	■ 0	■ 0	■ 0
Aluminum	ppm	■ 2	■ 0	■ 3	■ <1
Chromium	ppm	■ 1	■ 4	■ 2	■ <1
Molybdenum	ppm	■ 0	■ 6	■ 4	■ 4
Nickel	ppm	■ 0	■ <1	■ <1	■ 0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ 3	■ 11	■ 7	■ 6
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 147	■ 117	■ 138	■ 117
Magnesium	ppm	■ 0	■ 1	■ 4	■ <1
Zinc	ppm	■ 63	■ 54	■ 57	■ 59
Phosphorus	ppm	■ 3044	■ 2306	■ 2311	■ 2255
Barium	ppm	■ 4	■ 0	■ 0	■ <1
Boron	ppm	■ 217	■ 215	■ 234	■ 273

Diagnosis

No corrective action is recommended at this time. 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. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Depot: SAIBIR
Unique No: 10809848
Signed: Jonathan Hester
Report Date: 04 Jan 2024



CONSTRUCTION EQUIPMENT



GRAPHS

