



CONSTRUCTION EQUIPMENT

SW0064011 VOLVO A45G 352704 - DROP BOX



Sample No: VCP389227
Oil Type: GEAR OIL SAE 80W90
Job No: SWO064011



SAMPLE INFORMATION

Sample Number	VCP389227	VCP383500	VCP392785	VCP383831
Sample Date	17 Jul 2023	27 Apr 2023	08 Feb 2023	27 Oct 2022
Machine Hours	4405	3920	3450	2979
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	▲ 213	■ 47.3	■ 47.1	■ 47.3
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CONTAMINATION

Silicon	ppm	■ 12	■ 32	■ 30	■ 29
Sodium	ppm	■ 2	■ 4	■ 8	■ 6
Potassium	ppm	■ 0	■ 4	■ 3	■ 0



WEAR METALS

Iron	ppm	■ 92	■ 251	■ 213	■ 149
Copper	ppm	■ 4	■ 16	■ 14	■ 13
Lead	ppm	■ 0	■ <1	■ <1	■ 0
Tin	ppm	■ 0	■ 0	■ 0	■ 0
Aluminum	ppm	■ <1	■ 0	■ 0	■ <1
Chromium	ppm	■ <1	■ 2	■ 2	■ 1
Molybdenum	ppm	■ 9	11	9	7
Nickel	ppm	■ <1	■ <1	■ 2	■ 0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ 2	7	6	6
Vanadium	ppm	■ <1	0	0	0



ADDITIVES

Calcium	ppm	■ 112	61	49	57
Magnesium	ppm	■ 18	5	6	6
Zinc	ppm	■ 84	157	143	135
Phosphorus	ppm	■ 1221	2121	2034	2207
Barium	ppm	■ 0	0	<1	<1
Boron	ppm	■ 188	158	148	152

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The oil viscosity is higher than normal. Confirm oil type.

Depot: SAIBIR
Unique No: 10564889
Signed: Don Baldrige
Report Date: 24 Jul 2023



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GRAPHS

