



CONSTRUCTION EQUIPMENT

VOLVO A45GFS 352516 - DROP BOX



Sample No: VCP382748
Oil Type: GEAR OIL SAE 80W90
Job No:



SAMPLE INFORMATION

Sample Number	VCP382748	VCP409173	VCP409130	VCP373577
Sample Date	21 Nov 2023	18 Sep 2023	05 Jul 2023	22 Mar 2023
Machine Hours	4118	4264	3781	3222
Oil Hours	400	0	500	0
Oil Changed	Not Chngd	Changed	Changed	Not Chngd
Sample Status	ATTENTION	ATTENTION	ATTENTION	ABNORMAL

DUNN CONSTRUCTION INC
 318 N 14TH ST
 BELLEVUE, IA
 US 52031
 Contact: STEVE DUNN
 DUNNCONSTRUCTINC@GMAIL.COM
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	▲ 106	▲ 105	▲ 106	■ 53.1
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ 22	■ 20	■ 18	▲ 62
Sodium	ppm	■ 4	■ 2	■ 2	■ 9
Potassium	ppm	■ 3	■ 3	■ 3	■ 3

Diagnosis

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. Confirm oil type.



WEAR METALS

Iron	ppm	■ 97	■ 92	■ 72	■ 179
Copper	ppm	■ 3	■ 3	■ 3	■ 8
Lead	ppm	■ 0	■ 0	■ 0	■ 0
Tin	ppm	■ 0	■ 0	■ 0	■ 0
Aluminum	ppm	■ 1	■ 2	■ 2	■ <1
Chromium	ppm	■ 2	■ 1	■ <1	■ 2
Molybdenum	ppm	■ 7	■ 8	■ 6	9
Nickel	ppm	■ <1	■ <1	■ <1	■ <1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	■ 0	0	0	0
Manganese	ppm	■ 2	■ 1	■ 1	4
Vanadium	ppm	■ 0	0	0	0



ADDITIVES

Calcium	ppm	■ 43	■ 33	■ 29	41
Magnesium	ppm	■ 3	■ 3	■ 2	7
Zinc	ppm	■ 33	■ 41	■ 35	141
Phosphorus	ppm	■ 1231	■ 1251	■ 1269	2121
Barium	ppm	■ 0	■ 1	■ <1	0
Boron	ppm	■ 71	■ 61	■ 87	122

Depot: DUNBEL
Unique No: 10765658
Signed: Don Baldrige
Report Date: 03 Dec 2023



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GRAPHS

