



CONSTRUCTION EQUIPMENT

SWO-069272 VOLVO A45G 352071 - BOGIE/CENTER AXLE



Sample No: VCP441613
Oil Type: GEAR OIL SAE 90W140
Job No: SWO-069272



SAMPLE INFORMATION

Sample Number	VCP441613	VCP427488	VCP413187	VCP382576
Sample Date	29 Jan 2024	09 Oct 2023	12 Jul 2023	12 Apr 2023
Machine Hours	7545	7028	6523	6049
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	147	145	321	320
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	5	3	4
Sodium	ppm	0	0	0	<1
Potassium	ppm	1	2	0	0

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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	61	75	177	196
Copper	ppm	1	<1	1	<1
Lead	ppm	0	<1	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	2	2	<1	0
Chromium	ppm	<1	<1	2	2
Molybdenum	ppm	3	4	6	6
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	2	2	3	4
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	82	80	79	47
Magnesium	ppm	16	18	6	9
Zinc	ppm	59	68	42	21
Phosphorus	ppm	1018	1225	1164	1091
Barium	ppm	0	0	0	0
Boron	ppm	122	158	235	216

Depot: SAIBIR
Unique No: 10859318
Signed: Don Baldrige
Report Date: 03 Feb 2024



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GRAPHS

