



CONSTRUCTION EQUIPMENT

SWO-066023 APAC VOLVO L180H 5494 - FRONT AXLE



Sample No: VCP435429
Oil Type: TDH FLUID SAE 70W80
Job No: SWO-066023 APAC



SAMPLE INFORMATION

Sample Number	VCP435429	VCP424610	VCP410148	VCP368397
Sample Date	21 Sep 2023	07 Jul 2023	03 Apr 2023	10 Nov 2022
Machine Hours	4058	3620	3078	2519
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

COWIN EQUIPMENT COMPANY

2238 PINSON VALLEY PARKWAY
 BIRMINGHAM, AL
 US 35217
 Contact: BRANTLY CLAY
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 T:
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OIL CONDITION

Visc @ 40°C	cSt	39.4	39.1	39.1	40.1
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CONTAMINATION

Silicon	ppm	12	12	12	11
Sodium	ppm	8	9	10	9
Potassium	ppm	2	1	0	0



WEAR METALS

Iron	ppm	121	106	91	70
Copper	ppm	27	24	22	18
Lead	ppm	0	<1	0	1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	2	1	1	<1
Chromium	ppm	4	4	3	2
Molybdenum	ppm	2	2	2	2
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	6	5	5	3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	3608	3861	3545	3669
Magnesium	ppm	9	13	11	13
Zinc	ppm	1490	1626	1432	1502
Phosphorus	ppm	1257	1348	1231	1267
Barium	ppm	0	0	0	0
Boron	ppm	127	112	121	116

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.

Depot: VOLVO8528
Unique No: 10662682
Signed: Doug Bogart
Report Date: 27 Sep 2023



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GRAPHS

