



# CONSTRUCTION EQUIPMENT

SWO-070832 ATLAS COPCO T45-10SF TMG18SEDO183 - REAR LEFT FINAL DRIVE



**Sample No:** VCP436318  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** SWO-070832



## SAMPLE INFORMATION

Sample Number	<b>VCP436318</b>	VCP445716	VCP431112	VCP424674
Sample Date	<b>01 Apr 2024</b>	13 Nov 2023	31 Aug 2023	02 May 2023
Machine Hours	<b>6670</b>	6283	5911	5181
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Not Chngd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	NORMAL	ABNORMAL

### WHITAKER CONTRACTING

692 CONVICT CAMP RD  
 GUNTERVILLE, AL  
 US 35976

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 F:



## OIL CONDITION

Visc @ 40°C	cSt	<b>273</b>	265	263	265
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## CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>▲ 81</b>	▲ 124	■ 25	▲ 119
Sodium	ppm	■ 2	■ 2	■ <1	■ 0
Potassium	ppm	■ 6	■ 9	■ 2	■ 8

## Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.



## WEAR METALS

Iron	ppm	<b>■ 218</b>	■ 293	■ 119	■ 222
Copper	ppm	<b>■ 16</b>	■ 26	■ 15	■ 17
Lead	ppm	<b>■ 23</b>	■ 34	■ 20	■ 15
Tin	ppm	<b>■ 1</b>	■ 1	■ <1	■ <1
Aluminum	ppm	<b>● 14</b>	● 25	■ 4	● 22
Chromium	ppm	■ 2	■ 3	■ <1	■ 2
Molybdenum	ppm	■ 6	■ 2	■ 2	■ 4
Nickel	ppm	■ 2	■ 2	■ <1	■ 2
Titanium	ppm	<b>1</b>	2	<1	2
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	■ 2	■ 3	■ 1	■ 2
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



## ADDITIVES

Calcium	ppm	<b>■ 124</b>	■ 141	■ 103	■ 137
Magnesium	ppm	<b>■ 44</b>	■ 39	■ 30	■ 35
Zinc	ppm	<b>■ 127</b>	■ 100	■ 82	■ 84
Phosphorus	ppm	<b>■ 851</b>	■ 913	■ 930	■ 894
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 108</b>	■ 118	■ 127	■ 117

**Depot:** WHIGUN  
**Unique No:** 10963660  
**Signed:** Don Baldrige  
**Report Date:** 06 Apr 2024



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## GRAPHS

