



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>ABNORMAL</b>



Machine Id  
**ATLAS COPCO ST7 SCP209**  
Component  
**Front Differential**  
Fluid  
**GEAR OIL SAE 75W140 (--- GAL)**

## RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## WEAR

All component wear rates are normal.

## CONTAMINATION

There is a moderate concentration of water present in the oil.

## FLUID CONDITION

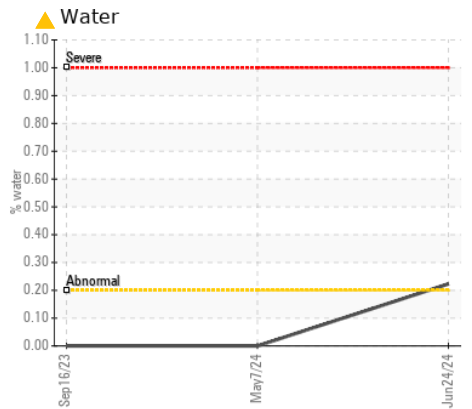
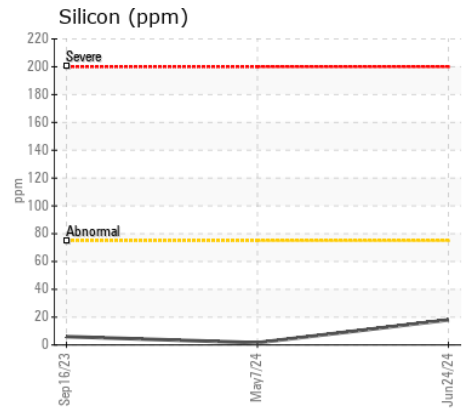
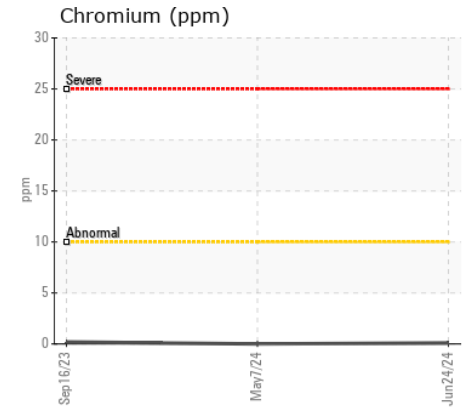
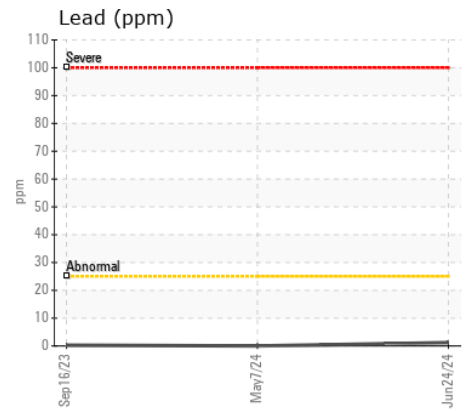
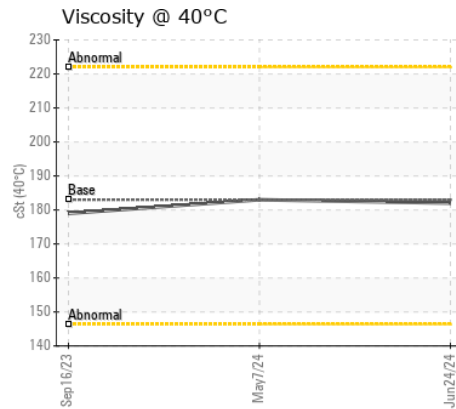
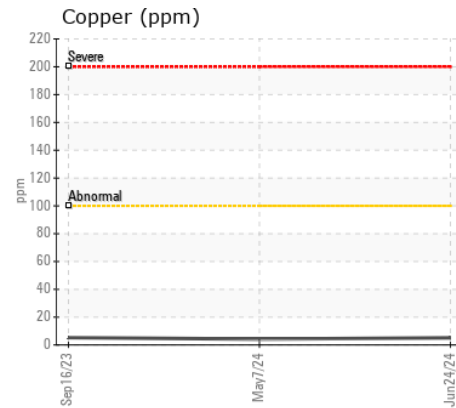
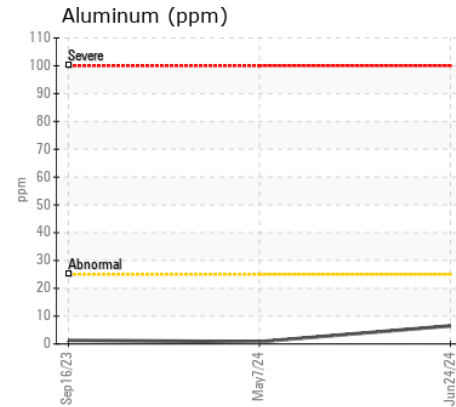
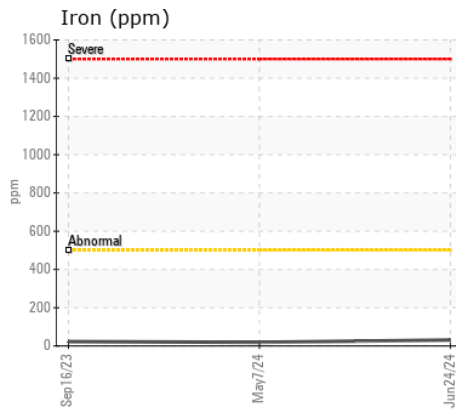
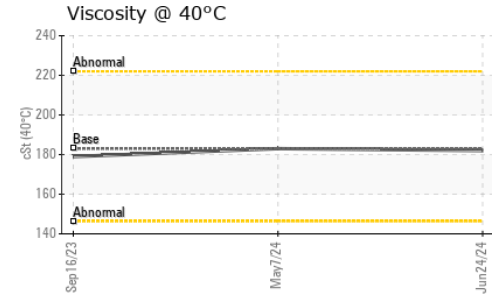
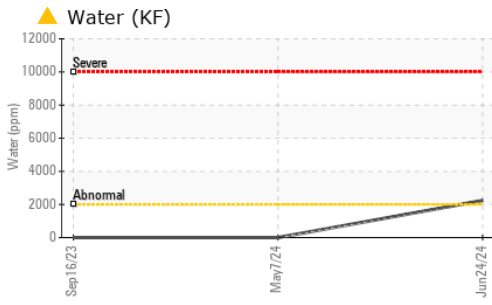
The white residue present in the sample is oil additive precipitate. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0952435</b>	WC0920191	WC0848154
Sample Date		Client Info		<b>24 Jun 2024</b>	07 May 2024	16 Sep 2023
Machine Age	hrs	Client Info		<b>0</b>	6310	5505
Oil Age	hrs	Client Info		<b>0</b>	500	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

Iron	ppm	ASTM D5185(m)	>500	<b>31</b>	19	23
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>6</b>	<1	1
Lead	ppm	ASTM D5185(m)	>25	<b>1</b>	0	<1
Copper	ppm	ASTM D5185(m)	>100	<b>5</b>	4	5
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

Silicon	ppm	ASTM D5185(m)	>75	<b>18</b>	2	6
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	0
Water	%	ASTM D6304*	>.2	<b>▲ 0.223</b>	---	---
ppm Water	ppm	ASTM D6304*	>2000	<b>▲ 2239</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>LIGHT</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>▲ WGOIL</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>.2	<b>NEG</b>	NEG	NEG

Sodium	ppm	ASTM D5185(m)		<b>1</b>	1	<1
Boron	ppm	ASTM D5185(m)	400	<b>22</b>	40	30
Barium	ppm	ASTM D5185(m)	200	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	12	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	12	<b>4</b>	1	<1
Calcium	ppm	ASTM D5185(m)	150	<b>23</b>	21	5
Phosphorus	ppm	ASTM D5185(m)	1650	<b>828</b>	813	951
Zinc	ppm	ASTM D5185(m)	125	<b>18</b>	11	14
Sulfur	ppm	ASTM D5185(m)	22500	<b>18556</b>	18540	20132
Visc @ 40°C	cSt	ASTM D7279(m)	183	<b>182</b>	183	179



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

**Sample No.** : WC0952435

**Lab Number** : 02645572

**Unique Number** : 5803111

**Test Package** : MOB 1 ( Additional Tests: Bottom, KF )

**Received** : 04 Jul 2024

**Tested** : 08 Jul 2024

**Diagnosed** : 08 Jul 2024 - Kevin Marson

**Agnico Eagle Canada**  
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To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.