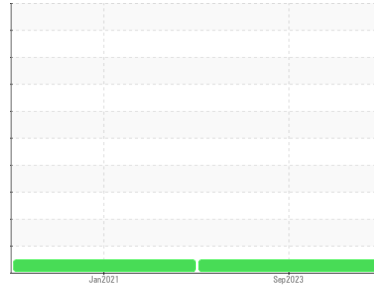




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**ATLAS COPCO ITJ3214184 - 4C MEDICAL**

Component  
**Compressor**  
Fluid  
**ATLAS COPCO ROTO XTEND (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1    | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|----------|
| Sample Number      | Client Info |             |            | <b>WC0855688</b>   | WC0536463   | ---      |
| Sample Date        | Client Info |             |            | <b>20 Sep 2023</b> | 26 Jan 2021 | ---      |
| Machine Age        | hrs         | Client Info |            | <b>3071</b>        | 931         | ---      |
| Oil Age            | hrs         | Client Info |            | <b>498</b>         | 931         | ---      |
| Oil Changed        | Client Info |             |            | <b>Changed</b>     | Not Changd  | ---      |
| Sample Status      |             |             |            | <b>NORMAL</b>      | NORMAL      | ---      |

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >50        | <b>0</b>     | 10       | ---      |
| Chromium    | ppm | ASTM D5185m | >5         | <b>0</b>     | <1       | ---      |
| Nickel      | ppm | ASTM D5185m |            | <b>0</b>     | 4        | ---      |
| Titanium    | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Silver      | ppm | ASTM D5185m |            | <b>0</b>     | <1       | ---      |
| Aluminum    | ppm | ASTM D5185m | >15        | <b>0</b>     | 0        | ---      |
| Lead        | ppm | ASTM D5185m | >65        | <b>0</b>     | 0        | ---      |
| Copper      | ppm | ASTM D5185m | >65        | <b>2</b>     | 2        | ---      |
| Tin         | ppm | ASTM D5185m | >10        | <b>0</b>     | 0        | ---      |
| Antimony    | ppm | ASTM D5185m |            | <b>---</b>   | 0        | ---      |
| Vanadium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | ---      |
| Cadmium     | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |

| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Barium     | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Molybdenum | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Manganese  | ppm | ASTM D5185m |            | <b>&lt;1</b> | <1       | ---      |
| Magnesium  | ppm | ASTM D5185m |            | <b>0</b>     | 2        | ---      |
| Calcium    | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Phosphorus | ppm | ASTM D5185m |            | <b>68</b>    | 126      | ---      |
| Zinc       | ppm | ASTM D5185m |            | <b>144</b>   | 16       | ---      |
| Sulfur     | ppm | ASTM D5185m |            | <b>239</b>   | 238      | ---      |

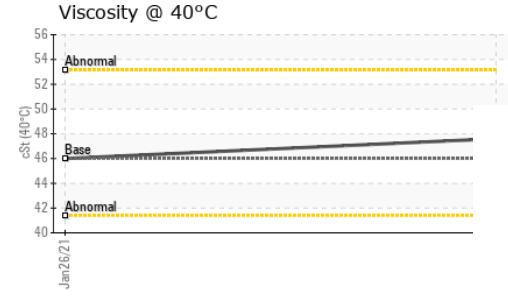
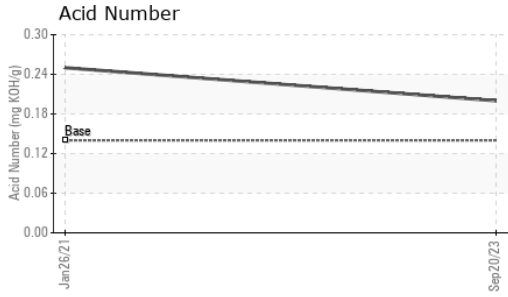
| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >35        | <b>&lt;1</b> | 2        | ---      |
| Sodium       | ppm | ASTM D5185m |            | <b>&lt;1</b> | 3        | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>0</b>     | <1       | ---      |

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 | 0.14       | <b>0.20</b> | 0.250    | ---      |



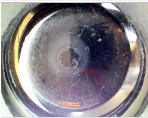

| VISUAL           |        | method  | limit/base | current      | history1 | history2 |
|------------------|--------|---------|------------|--------------|----------|----------|
| White Metal      | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | ---      |
| Yellow Metal     | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | ---      |
| Precipitate      | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | ---      |
| Silt             | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | ---      |
| Debris           | scalar | *Visual | NONE       | <b>NONE</b>  | MODER    | ---      |
| Sand/Dirt        | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | ---      |
| Appearance       | scalar | *Visual | NORML      | <b>NORML</b> | NORML    | ---      |
| Odor             | scalar | *Visual | NORML      | <b>NORML</b> | NORML    | ---      |
| Emulsified Water | scalar | *Visual | >0.1       | <b>NEG</b>   | NEG      | ---      |
| Free Water       | scalar | *Visual |            | <b>NEG</b>   | ---      | ---      |



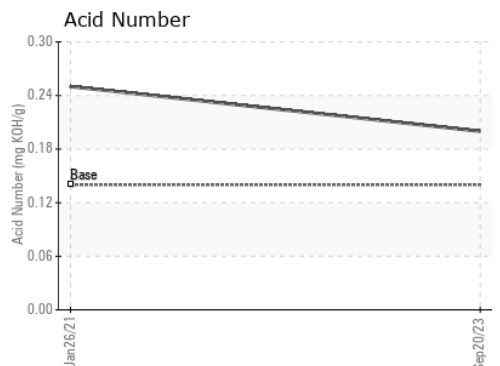
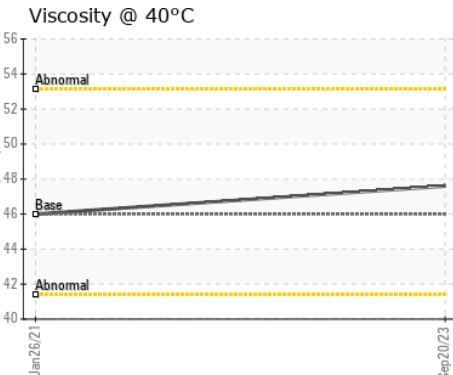
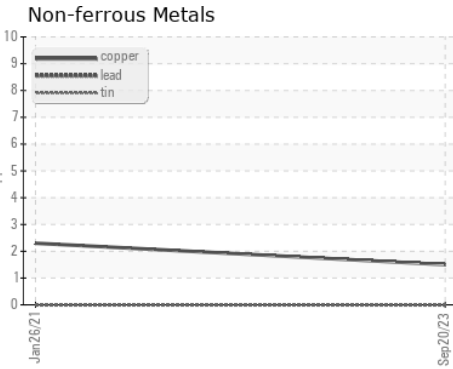
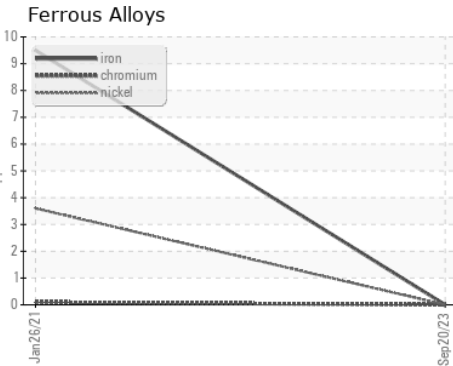
# OIL ANALYSIS REPORT



| FLUID PROPERTIES | method | limit/base   | current     | history1 | history2 |
|------------------|--------|--------------|-------------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445 46 | <b>47.6</b> | 46.0     | ---      |

| SAMPLE IMAGES | method | limit/base | current   | history1  | history2 |
|---------------|--------|------------|---|---|----------|
| Color         |        |            |  |  | no image |
| Bottom        |        |            |  |  | no image |

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0855688 **Received** : 26 Sep 2023  
**Lab Number** : **05961312** **Diagnosed** : 27 Sep 2023  
**Unique Number** : 10662525 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**JOHN HENRY FOSTER MINNESOTA INC.**  
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 T: (651)681-5745  
 F: (651)681-0536

To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)