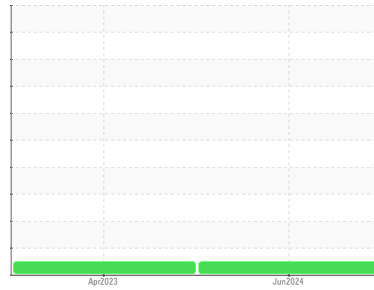




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id

## OPG ICD GATE #9

Component

**Hydraulic System**

Fluid

**MOBIL VELOCITE OIL NO.10 (3000 LTR)**

### DIAGNOSIS

#### Recommendation

This is a baseline read-out on the submitted sample.

#### Contamination

ISO Cleanliness Code (ISO 4406:1999): 15/13/10;  
Cumulative particle counts >4µm = 183, >6µm = 59,  
>14µm = 8, >21µm = 3, >38µm = 0, >71µm = 0.

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1    | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|----------|
| Sample Number      | Client Info |             |            | <b>WC0919590</b>   | WC0752792   | ---      |
| Sample Date        | Client Info |             |            | <b>10 Jun 2024</b> | 14 Apr 2023 | ---      |
| Machine Age        | hrs         | Client Info |            | <b>0</b>           | 0           | ---      |
| Oil Age            | hrs         | Client Info |            | <b>0</b>           | 0           | ---      |
| Oil Changed        | Client Info |             |            | <b>Filtered</b>    | Changed     | ---      |
| Sample Status      |             |             |            | <b>NORMAL</b>      | NORMAL      | ---      |

| WEAR METALS |     | method        | limit/base | current   | history1 | history2 |
|-------------|-----|---------------|------------|-----------|----------|----------|
| Iron        | ppm | ASTM D5185(m) | >20        | <b>3</b>  | ---      | ---      |
| Chromium    | ppm | ASTM D5185(m) | >20        | <b>0</b>  | ---      | ---      |
| Nickel      | ppm | ASTM D5185(m) | >20        | <b>0</b>  | ---      | ---      |
| Titanium    | ppm | ASTM D5185(m) |            | <b>0</b>  | ---      | ---      |
| Silver      | ppm | ASTM D5185(m) |            | <b>0</b>  | ---      | ---      |
| Aluminum    | ppm | ASTM D5185(m) | >20        | <b>0</b>  | ---      | ---      |
| Lead        | ppm | ASTM D5185(m) | >20        | <b>13</b> | ---      | ---      |
| Copper      | ppm | ASTM D5185(m) | >20        | <b>12</b> | ---      | ---      |
| Tin         | ppm | ASTM D5185(m) | >20        | <b>0</b>  | ---      | ---      |
| Antimony    | ppm | ASTM D5185(m) |            | <b>0</b>  | ---      | ---      |
| Vanadium    | ppm | ASTM D5185(m) |            | <b>0</b>  | ---      | ---      |
| Beryllium   | ppm | ASTM D5185(m) |            | <b>0</b>  | ---      | ---      |
| Cadmium     | ppm | ASTM D5185(m) |            | <b>0</b>  | ---      | ---      |

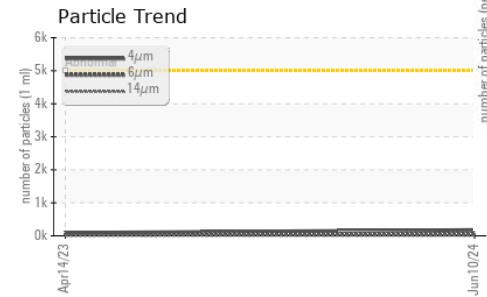
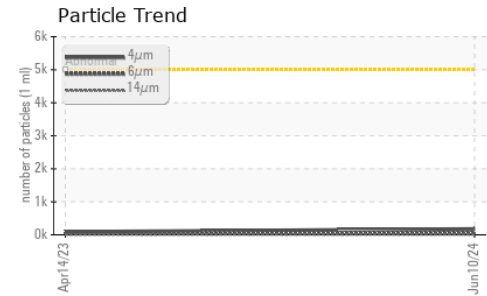
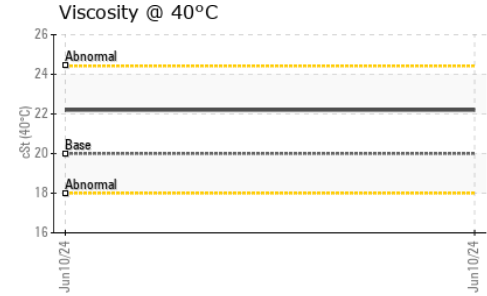
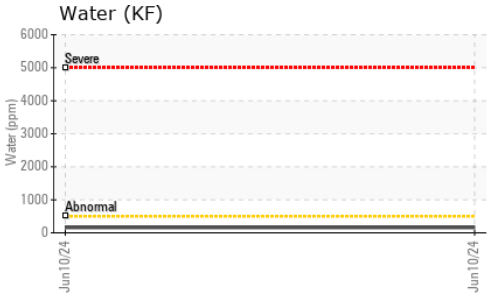
| ADDITIVES  |     | method        | limit/base | current      | history1 | history2 |
|------------|-----|---------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185(m) |            | <b>0</b>     | ---      | ---      |
| Barium     | ppm | ASTM D5185(m) |            | <b>0</b>     | ---      | ---      |
| Molybdenum | ppm | ASTM D5185(m) |            | <b>0</b>     | ---      | ---      |
| Manganese  | ppm | ASTM D5185(m) |            | <b>0</b>     | ---      | ---      |
| Magnesium  | ppm | ASTM D5185(m) |            | <b>0</b>     | ---      | ---      |
| Calcium    | ppm | ASTM D5185(m) |            | <b>3</b>     | ---      | ---      |
| Phosphorus | ppm | ASTM D5185(m) |            | <b>163</b>   | ---      | ---      |
| Zinc       | ppm | ASTM D5185(m) |            | <b>57</b>    | ---      | ---      |
| Sulfur     | ppm | ASTM D5185(m) |            | <b>2734</b>  | ---      | ---      |
| Lithium    | ppm | ASTM D5185(m) |            | <b>&lt;1</b> | ---      | ---      |

| CONTAMINANTS |     | method        | limit/base | current      | history1 | history2 |
|--------------|-----|---------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185(m) | >15        | <b>1</b>     | ---      | ---      |
| Sodium       | ppm | ASTM D5185(m) |            | <b>0</b>     | ---      | ---      |
| Potassium    | ppm | ASTM D5185(m) | >20        | <b>0</b>     | ---      | ---      |
| Water        | %   | ASTM D6304*   | >0.05      | <b>0.015</b> | ---      | ---      |
| ppm Water    | ppm | ASTM D6304*   | >500       | <b>160</b>   | ---      | ---      |

| FLUID CLEANLINESS |  | method       | limit/base | current         | history1 | history2 |
|-------------------|--|--------------|------------|-----------------|----------|----------|
| Particles >4µm    |  | ASTM D7647   | >5000      | <b>183</b>      | 95       | ---      |
| Particles >6µm    |  | ASTM D7647   | >1300      | <b>59</b>       | 33       | ---      |
| Particles >14µm   |  | ASTM D7647   | >160       | <b>8</b>        | 4        | ---      |
| Particles >21µm   |  | ASTM D7647   | >40        | <b>3</b>        | 1        | ---      |
| Particles >38µm   |  | ASTM D7647   | >10        | <b>0</b>        | 0        | ---      |
| Particles >71µm   |  | ASTM D7647   | >3         | <b>0</b>        | 0        | ---      |
| Oil Cleanliness   |  | ISO 4406 (c) | >19/17/14  | <b>15/13/10</b> | 14/12/9  | ---      |



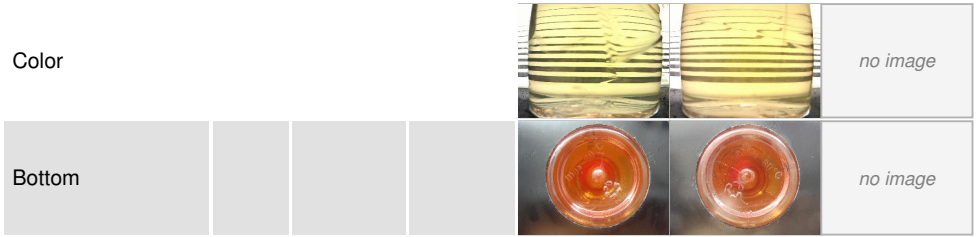
# OIL ANALYSIS REPORT



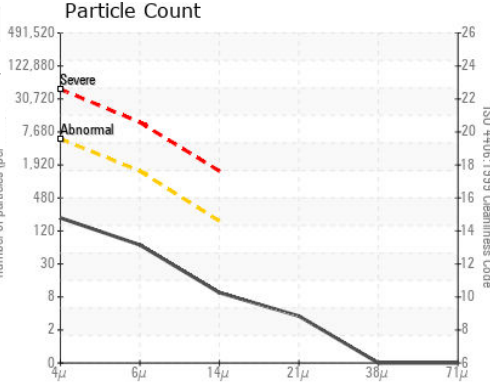
| VISUAL           | method | limit/base | current | history1     | history2 |     |
|------------------|--------|------------|---------|--------------|----------|-----|
| White Metal      | scalar | Visual*    | NONE    | <b>NONE</b>  | NONE     | --- |
| Yellow Metal     | scalar | Visual*    | NONE    | <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>  | NONE     | --- |
| 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*    | >0.05   | <b>.5%</b>   | ---      | --- |
| Free Water       | scalar | Visual*    |         | <b>NEG</b>   | ---      | --- |

| FLUID PROPERTIES | method | limit/base    | current | history1    | history2 |     |
|------------------|--------|---------------|---------|-------------|----------|-----|
| Visc @ 40°C      | cSt    | ASTM D7279(m) | 20      | <b>22.2</b> | ---      | --- |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0919590  
**Lab Number** : 02641445  
**Unique Number** : 5798984  
**Test Package** : TEST ( Additional Tests: ICP, KF, KV40, PrtCount, Spat )

**CANADIAN CHEMICAL CLEANING**  
 1099 HWY #6, R.R. #2  
 HAMILTON, ON  
 CA L8N 2Z7  
 Contact: Len MacDonald  
 len.macdonald@reladyne.com  
 T: (905)689-2266  
 F: (905)689-2998

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.