



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**

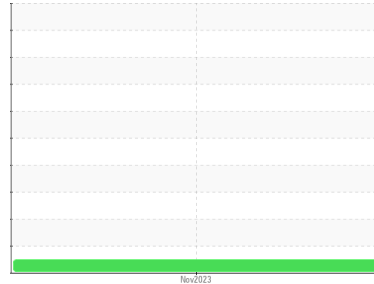


Area  
**TODAYS CAR WASH 7 - ADAMS AVE TEMPLE**

Machine Id  
**7-2-PP**

Component  
**2 Hydraulic Power Pack**

Fluid  
**AW HYDRAULIC OIL ISO 32 (--- GAL)**



## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. 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. The amount and size of particulates present in the system are acceptable.

### 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>WC0877679</b>   | ---      | ---      |
| Sample Date   | Client Info     | <b>08 Nov 2023</b> | ---      | ---      |
| Machine Age   | hrs Client Info | <b>0</b>           | ---      | ---      |
| Oil Age       | hrs Client Info | <b>0</b>           | ---      | ---      |
| Oil Changed   | Client Info     | <b>N/A</b>         | ---      | ---      |
| Sample Status |                 | <b>NORMAL</b>      | ---      | ---      |

## WEAR METALS

| method                   | limit/base | current      | history1 | history2 |
|--------------------------|------------|--------------|----------|----------|
| Iron ppm ASTM D5185m     | >20        | <b>0</b>     | ---      | ---      |
| Chromium ppm ASTM D5185m | >20        | <b>0</b>     | ---      | ---      |
| Nickel ppm ASTM D5185m   | >20        | <b>0</b>     | ---      | ---      |
| Titanium ppm ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Silver ppm ASTM D5185m   |            | <b>0</b>     | ---      | ---      |
| Aluminum ppm ASTM D5185m | >20        | <b>0</b>     | ---      | ---      |
| Lead ppm ASTM D5185m     | >20        | <b>&lt;1</b> | ---      | ---      |
| Copper ppm ASTM D5185m   | >20        | <b>&lt;1</b> | ---      | ---      |
| Tin ppm ASTM D5185m      | >20        | <b>&lt;1</b> | ---      | ---      |
| Vanadium ppm ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Cadmium ppm ASTM D5185m  |            | <b>0</b>     | ---      | ---      |

## ADDITIVES

| method                     | limit/base | current      | history1 | history2 |
|----------------------------|------------|--------------|----------|----------|
| Boron ppm ASTM D5185m      | 5          | <b>0</b>     | ---      | ---      |
| Barium ppm ASTM D5185m     | 5          | <b>0</b>     | ---      | ---      |
| Molybdenum ppm ASTM D5185m | 5          | <b>0</b>     | ---      | ---      |
| Manganese ppm ASTM D5185m  |            | <b>&lt;1</b> | ---      | ---      |
| Magnesium ppm ASTM D5185m  | 25         | <b>4</b>     | ---      | ---      |
| Calcium ppm ASTM D5185m    | 200        | <b>50</b>    | ---      | ---      |
| Phosphorus ppm ASTM D5185m | 300        | <b>296</b>   | ---      | ---      |
| Zinc ppm ASTM D5185m       | 370        | <b>376</b>   | ---      | ---      |
| Sulfur ppm ASTM D5185m     | 2500       | <b>968</b>   | ---      | ---      |

## CONTAMINANTS

| method                    | limit/base | current      | history1 | history2 |
|---------------------------|------------|--------------|----------|----------|
| Silicon ppm ASTM D5185m   | >15        | <b>&lt;1</b> | ---      | ---      |
| Sodium ppm ASTM D5185m    |            | <b>0</b>     | ---      | ---      |
| Potassium ppm ASTM D5185m | >20        | <b>0</b>     | ---      | ---      |

## FLUID CLEANLINESS

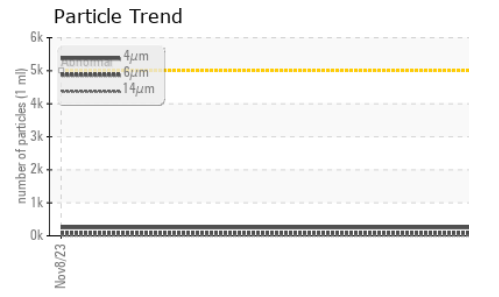
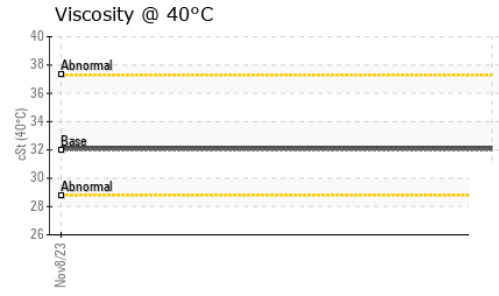
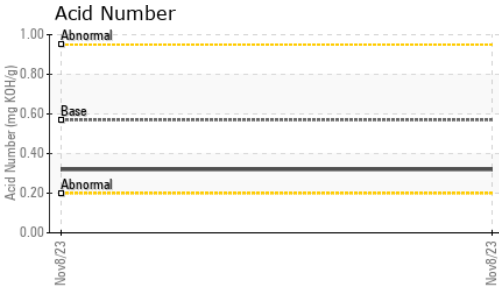
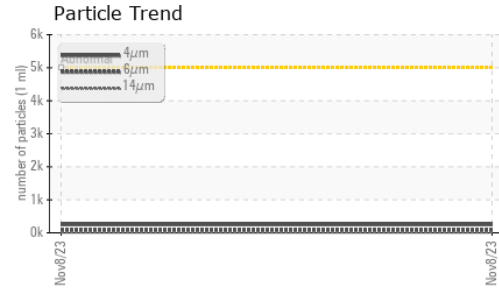
| method                       | limit/base | current         | history1 | history2 |
|------------------------------|------------|-----------------|----------|----------|
| Particles >4µm ASTM D7647    | >5000      | <b>251</b>      | ---      | ---      |
| Particles >6µm ASTM D7647    | >1300      | <b>84</b>       | ---      | ---      |
| Particles >14µm ASTM D7647   | >160       | <b>11</b>       | ---      | ---      |
| Particles >21µm ASTM D7647   | >40        | <b>3</b>        | ---      | ---      |
| Particles >38µm ASTM D7647   | >10        | <b>0</b>        | ---      | ---      |
| Particles >71µm ASTM D7647   | >3         | <b>0</b>        | ---      | ---      |
| Oil Cleanliness ISO 4406 (c) | >19/17/14  | <b>15/14/11</b> | ---      | ---      |

## FLUID DEGRADATION

| method                               | limit/base | current     | history1 | history2 |
|--------------------------------------|------------|-------------|----------|----------|
| Acid Number (AN) mg KOH/g ASTM D8045 | 0.57       | <b>0.32</b> | ---      | ---      |



# OIL ANALYSIS REPORT



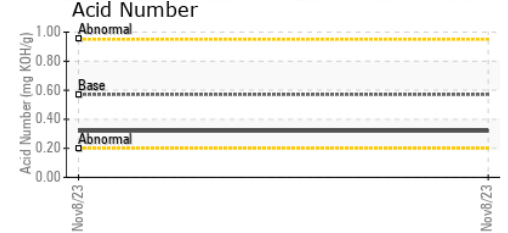
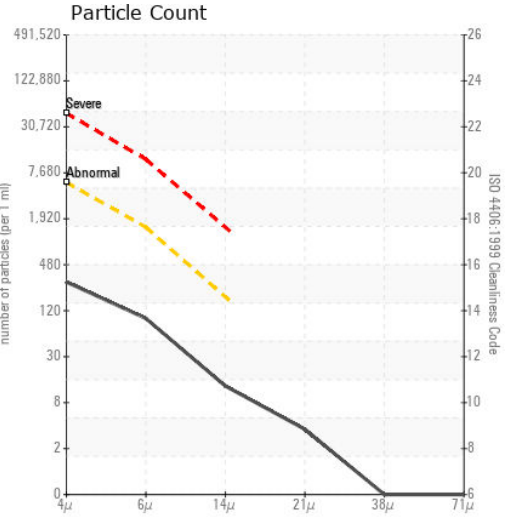
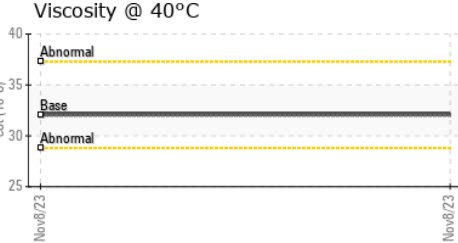
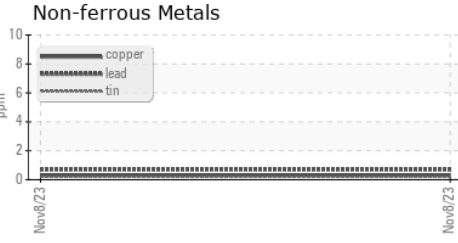
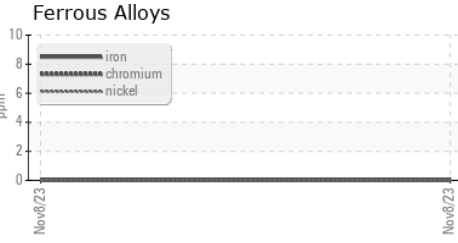
| VISUAL           | method | limit/base | current | history1 | history2 |     |
|------------------|--------|------------|---------|----------|----------|-----|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      | --- |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      | --- |
| Precipitate      | scalar | *Visual    | NONE    | NONE     | ---      | --- |
| Silt             | scalar | *Visual    | NONE    | NONE     | ---      | --- |
| Debris           | scalar | *Visual    | NONE    | NONE     | ---      | --- |
| Sand/Dirt        | scalar | *Visual    | NONE    | NONE     | ---      | --- |
| Appearance       | scalar | *Visual    | NORML   | NORML    | ---      | --- |
| Odor             | scalar | *Visual    | NORML   | NORML    | ---      | --- |
| Emulsified Water | scalar | *Visual    | >0.05   | NEG      | ---      | --- |
| Free Water       | scalar | *Visual    |         | NEG      | ---      | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |     |
|------------------|--------|------------|---------|----------|----------|-----|
| Visc @ 40°C      | cSt    | ASTM D445  | 32      | 32.1     | ---      | --- |

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

|        |  |          |          |
|--------|--|----------|----------|
| Color  |  | no image | no image |
| Bottom |  | no image | no image |

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0877679 **Received** : 13 Nov 2023  
**Lab Number** : 06006291 **Diagnosed** : 14 Nov 2023  
**Unique Number** : 10740053 **Diagnostician** : Doug Bogart  
**Test Package** : PLANT

**TODAYS CAR WASH**  
 514 S FT HOOD STREET  
 KILLEEN, TX  
 US 76549-6289  
 Contact: HOWARD SCHULTZ  
 howards@todayscarwash.com  
 T: (248)431-8760  
 F:

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)