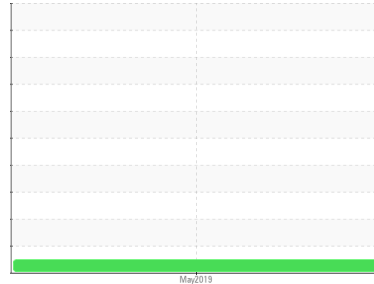




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**DRV-21**

Component  
**Gearbox**

Fluid  
**CHEVRON REGAL OIL R&O 220 (22 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>WCI2344649</b>  | ---      | ---      |
| Sample Date   | Client Info     | <b>06 May 2019</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>      | ---      | ---      |

## CONTAMINATION

| method | limit/base     | current    | history1 | history2 |
|--------|----------------|------------|----------|----------|
| Water  | WC Method >0.2 | <b>NEG</b> | ---      | ---      |

## WEAR METALS

| method   | limit/base           | current      | history1 | history2 |
|----------|----------------------|--------------|----------|----------|
| Iron     | ppm ASTM D5185m >200 | <b>&lt;1</b> | ---      | ---      |
| Chromium | ppm ASTM D5185m >15  | <b>0</b>     | ---      | ---      |
| Nickel   | ppm ASTM D5185m >15  | <b>0</b>     | ---      | ---      |
| Titanium | ppm ASTM D5185m      | <b>0</b>     | ---      | ---      |
| Silver   | ppm ASTM D5185m      | <b>0</b>     | ---      | ---      |
| Aluminum | ppm ASTM D5185m >25  | <b>0</b>     | ---      | ---      |
| Lead     | ppm ASTM D5185m >100 | <b>&lt;1</b> | ---      | ---      |
| Copper   | ppm ASTM D5185m >200 | <b>&lt;1</b> | ---      | ---      |
| Tin      | ppm ASTM D5185m >25  | <b>0</b>     | ---      | ---      |
| Antimony | ppm ASTM D5185m      | <b>0</b>     | ---      | ---      |
| Vanadium | ppm ASTM D5185m      | <b>0</b>     | ---      | ---      |
| Cadmium  | ppm ASTM D5185m      | <b>&lt;1</b> | ---      | ---      |

## ADDITIVES

| method     | limit/base      | current     | history1 | history2 |
|------------|-----------------|-------------|----------|----------|
| Boron      | ppm ASTM D5185m | <b>2</b>    | ---      | ---      |
| Barium     | ppm ASTM D5185m | <b>0</b>    | ---      | ---      |
| Molybdenum | ppm ASTM D5185m | <b>0</b>    | ---      | ---      |
| Manganese  | ppm ASTM D5185m | <b>0</b>    | ---      | ---      |
| Magnesium  | ppm ASTM D5185m | <b>0</b>    | ---      | ---      |
| Calcium    | ppm ASTM D5185m | <b>2</b>    | ---      | ---      |
| Phosphorus | ppm ASTM D5185m | <b>24</b>   | ---      | ---      |
| Zinc       | ppm ASTM D5185m | <b>0</b>    | ---      | ---      |
| Sulfur     | ppm ASTM D5185m | <b>3400</b> | ---      | ---      |

## CONTAMINANTS

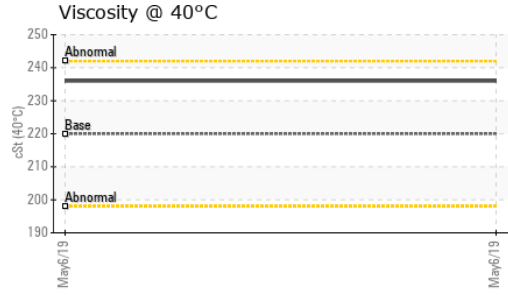
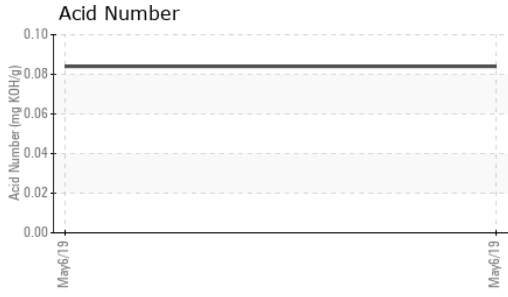
| method    | limit/base          | current      | history1 | history2 |
|-----------|---------------------|--------------|----------|----------|
| Silicon   | ppm ASTM D5185m >50 | <b>6</b>     | ---      | ---      |
| Sodium    | ppm ASTM D5185m     | <b>&lt;1</b> | ---      | ---      |
| Potassium | ppm ASTM D5185m >20 | <b>6</b>     | ---      | ---      |

## FLUID DEGRADATION

| method           | limit/base          | current      | history1 | history2 |
|------------------|---------------------|--------------|----------|----------|
| Acid Number (AN) | mg KOH/g ASTM D8045 | <b>0.084</b> | ---      | ---      |



# OIL ANALYSIS REPORT



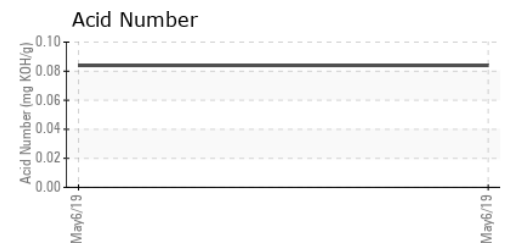
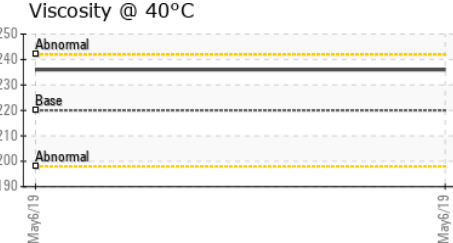
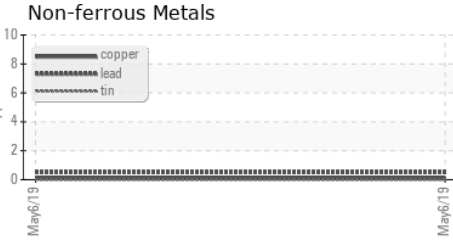
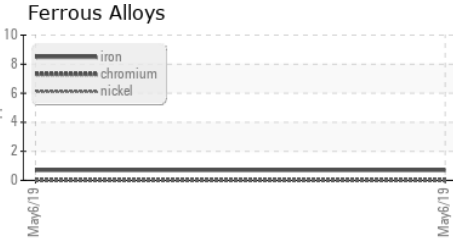
| VISUAL           | method | limit/base | current | history1 | history2 |     |
|------------------|--------|------------|---------|----------|----------|-----|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      | --- |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      | --- |
| 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    | >0.2    | NEG      | ---      | --- |
| Free Water       | scalar | *Visual    |         | NEG      | ---      | --- |

| FLUID PROPERTIES | method | limit/base    | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445 220 | 236     | ---      | ---      |

| 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.** : WC12344649 **Received** : 08 May 2019  
**Lab Number** : **04709426** **Diagnosed** : 09 May 2019  
**Unique Number** : 8590970 **Diagnostician** : Wes Davis  
**Test Package** : IND 2

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 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)