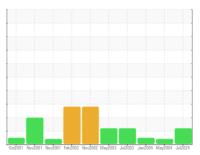


# **OIL ANALYSIS REPORT**

Sample Rating Trend





**Air Compressors** 

CARCAL #2

Air Compressor

**ROYAL PURPLE SYNFILM 68 (--- GAL)** 

## Recommendation

Resample at the next service interval to monitor.

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 oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand or type of oil. Confirm oil type. The condition of the oil is suitable for further service.

| CAMPLE INCORNA    | TION |              | 11 11 11   |             | 1111        | 1:          |
|-------------------|------|--------------|------------|-------------|-------------|-------------|
| SAMPLE INFORMA    | HON  | method       | limit/base | current     | history1    | history2    |
| Sample Number     |      | Client Info  |            | USP0015021  | WCI012279   | WCI014902   |
| Sample Date       |      | Client Info  |            | 17 Jul 2024 | 23 May 2004 | 05 Jan 2004 |
| 3-                | ırs  | Client Info  |            | 0           | 54065       | 54065       |
| •                 | ırs  | Client Info  |            | 0           | 0           | 0           |
| Oil Changed       |      | Client Info  |            | N/A         | N/A         | N/A         |
| Sample Status     |      |              |            | ATTENTION   | ABNORMAL    | NORMAL      |
| WEAR METALS       |      | method       | limit/base | current     | history1    | history2    |
| Iron p            | pm   | ASTM D5185m  | >50        | 0           | <1          | <1          |
| Chromium p        | pm   | ASTM D5185m  | >4         | <1          | 0           | 0           |
| Nickel p          | pm   | ASTM D5185m  | >4         | 0           | <1          | 0           |
| Titanium p        | pm   | ASTM D5185m  |            | 0           | 0           | 0           |
| Silver p          | pm   | ASTM D5185m  |            | 0           | 0           | 0           |
| <b>Aluminum</b> p | pm   | ASTM D5185m  | >10        | 1           | 0           | <1          |
| Lead p            | pm   | ASTM D5185m  | >20        | 0           | 0           | 1           |
| Copper p          | pm   | ASTM D5185m  | >40        | 0           | 49          | 62          |
| Tin p             | pm   | ASTM D5185m  | >5         | 0           | 0           | 0           |
| <b>Antimony</b> p | pm   | ASTM D5185m  |            |             | 0           | 0           |
| Vanadium p        | pm   | ASTM D5185m  |            | 0           | 0           | 0           |
| <b>Cadmium</b> p  | pm   | ASTM D5185m  |            | 0           | 0           | 0           |
| ADDITIVES         |      | method       | limit/base | current     | history1    | history2    |
| Boron p           | pm   | ASTM D5185m  |            | 0           | <1          | 0           |
| Barium p          | pm   | ASTM D5185m  |            | 0           | 0           | 0           |
| Molybdenum p      | pm   | ASTM D5185m  |            | 0           | 0           | <1          |
| Manganese p       | pm   | ASTM D5185m  |            | 0           | 0           | 0           |
| Magnesium p       | pm   | ASTM D5185m  | 90         | <u> </u>    | 0           | 0           |
| Calcium           | pm   | ASTM D5185m  |            | 0           | 0           | 0           |
| Phosphorus p      | pm   | ASTM D5185m  |            | 0           | 19          | 21          |
| <b>Zinc</b> p     | pm   | ASTM D5185m  |            | 0           | <1          | 0           |
| Sulfur p          | pm   | ASTM D5185m  |            | <b>0</b>    | 7457        | 8570        |
| CONTAMINANTS      |      | method       | limit/base | current     | history1    | history2    |
| Silicon p         | pm   | ASTM D5185m  | >25        | <1          | <1          | <1          |
| Sodium p          | pm   | ASTM D5185m  |            | 0           | <1          | 1           |
| Potassium p       | pm   | ASTM D5185m  | >20        | <1          | 5           | 0           |
| Water %           | 6    | ASTM D6304   | >0.6       | 0.003       |             |             |
| ppm Water p       | pm   | ASTM D6304   | >6000      | 34          |             |             |
| FLUID CLEANLINES  | SS   | method       | limit/base | current     | history1    | history2    |
| Particles >4µm    |      | ASTM D7647   | >10000     | 484         |             | 3794        |
| Particles >6µm    |      | ASTM D7647   | >2500      | 176         |             | 1403        |
| Particles >14μm   |      | ASTM D7647   | >320       | 17          |             | 150         |
| Particles >21µm   |      | ASTM D7647   | >80        | 6           |             | 35          |
| Particles >38μm   |      | ASTM D7647   | >20        | 1           |             | 3           |
| Particles >71μm   |      | ASTM D7647   | >4         | 0           |             | 0           |
| Oil Cleanliness   |      | ISO 4406 (c) | >20/18/15  | 16/15/11    |             | 19/18/14    |
| FLUID DEGRADATI   | ION  | method       | limit/base | current     | history1    | history2    |



## **OIL ANALYSIS REPORT**







Certificate 12367

Sample No. Lab Number

Laboratory : 06240377 Unique Number : 11129211

: USP0015021

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jul 2024

Tested : 19 Jul 2024

Diagnosed : 19 Jul 2024 - Doug Bogart

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)

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