OIL ANALYSIS REPORT


## 728091 <br> Component <br> PETRO CANADA DURON SHP 15W40 (--- 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.


| ADDITIVES |  | method | limitbase | current | history1 | history2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Boron | ppm | ASTM D5185m | 0 | 5 | --- | --- |
| Barium | ppm | ASTM D5185m | 0 | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 60 | 56 | --- | --- |
| Manganese | ppm | ASTM D5185m | 0 | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 1010 | 915 | --- | --- |
| Calcium | ppm | ASTM D5185m | 1070 | 1078 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 1150 | 969 | --- | --- |
| Zinc | ppm | ASTM D5185m | 1270 | 1206 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 2060 | 2796 | --- | --- |
| CONTAMINANTS |  | method | limitbase | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >20 | 8 | --- | --- |
| Sodium | ppm | ASTM D5185m |  | 9 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 29 | --- | --- |
| INFRA-RED |  | method | limitbase | current | history1 | history2 |
| Soot \% | \% | *ASTM D7844 | >3 | 0.7 | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 10.8 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 22.4 | --- | --- |
| FLUID DEGRADATION |  | method | limitbase | current | history1 | history2 |
| Oxidation | Abs 1.1 mm | *ASTM D7414 | >25 | 19.7 | --- | --- |
| Base Number (BN) | mg KOHIg | ASTM D2896 | 9.8 | 6.4 | --- | --- |

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| VISUAL |  | method | limitbase | 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 | limitbase | current | history1 | history2 |
| Visc @ $100^{\circ} \mathrm{C}$ | cSt | ASTM D445 | 15.4 | 13.7 | --- | --- |
| GRAPHS |  |  |  |  |  |  |



| Laboratory | $:$ WearCheck USA - 501 Madison Ave., Cary, NC 27513 |  |  |
| :--- | :--- | :--- | :--- |
| Sample No. | $:$ GFL0087959 | Received | $: 06$ Nov 2023 |
| Lab Number | $: 05998638$ | Diagnosed | $: 06$ Nov 2023 |
| Unique Number | $: 10726998$ | Diagnostician | $:$ Wes Davis |

