OIL
DIAGNOSTICS
OIL ANALYSIS REPORT


## 2227061

## Component

## GEAR OIL SAE 75W90 (--- QTS)

## DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

## Wear

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil.

## Fluid Condition

The condition of the oil is acceptable for the time in service.

| SAMPLE INFORMATION |  | method | limitbase | current | history1 | history2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sample Number |  | Client Info |  | PCA0113273 | PCA0109363 | PCA0106404 |
| Sample Date |  | Client Info |  | 08 Jan 2024 | 06 Nov 2023 | 18 Sep 2023 |
| Machine Age | mls | Client Info |  | 64874 | 43386 | 0 |
| Oil Age | mls | Client Info |  | 64874 | 43386 | 24966 |
| Oil Changed |  | Client Info |  | Not Changd | Not Changd | Not Changd |
| Sample Status |  |  |  | NORMAL | NORMAL | NORMAL |
| CONTAMINA |  | method | mitbase | current | history 1 | story2 |


| CONTAMINATION |  | method | limitbase | current | history 1 | history2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Water |  | WC Method | >. 2 | NEG | NEG | NEG |
| WEAR METALS |  | method | limitbase | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | $>500$ | 209 | 206 | 171 |
| Chromium | ppm | ASTM D5185m | >10 | 2 | 3 | 2 |
| Nickel | ppm | ASTM D5185m | >10 | 6 | 9 | 7 |
| Titanium | ppm | ASTM D5185m |  | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m |  | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 3 | 4 | 4 |
| Lead | ppm | ASTM D5185m | >25 | <1 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >100 | 3 | 2 | 2 |
| Tin | ppm | ASTM D5185m | >10 | 1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m |  | 0 | 0 | <1 |
| Cadmium | ppm | ASTM D5185m |  | 0 | 0 | 0 |


| ADDITIVES |  | method | limitbase | current | history1 | history2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Boron | ppm | ASTM D5185m | 400 | 163 | 158 | 155 |
| Barium | ppm | ASTM D5185m | 200 | 0 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185m | 12 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m |  | 11 | 12 | 11 |
| Magnesium | ppm | ASTM D5185m | 12 | 0 | 0 | 0 |
| Calcium | ppm | ASTM D5185m | 150 | 6 | 17 | 0 |
| Phosphorus | ppm | ASTM D5185m | 1650 | 1120 | 1096 | 1065 |
| Zinc | ppm | ASTM D5185m | 125 | 0 | 11 | 0 |
| Sulfur | ppm | ASTM D5185m | 22500 | 27507 | 24033 | 24591 |
| CONTAMINAN |  | method | limitbase | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >75 | 33 | 35 | 35 |
| Sodium | ppm | ASTM D5185m |  | 5 | 6 | 5 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 0 | 1 |
| VISUAL |  | method | limitbase | current | history1 | history2 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | LIGHT |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >. 2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual |  | NEG | NEG | NEG |

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DIAGNOSTICS

## OIL ANALYSIS REPORT



| FLUID PROPERTIES | method | limitbase | current | history1 | history2 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Visc @ 40 ${ }^{\circ} \mathrm{C}$ cSt | ASTM D445 | 109 | 95.3 | 96.5 | 96.9 |
| SAMPLE IMAGES | method | limitbase | current | history1 | history2 |
| Color |  |  | no image | no image | no image |
| Bottom |  |  | no image | no image | no image |
| GRAPHS |  |  |  |  |  |



Non-ferrous Metals


Viscosity @ $40^{\circ} \mathrm{C}$


Laboratory : WearCheck USA-501 Madison Ave., Cary, NC 27513
Sample No. : PCA0113273 Received : 14 Mar 2024 Lab Number : $06118690 \quad$ Tested : 15 Mar 2024 Unique Number: 10927523 Diagnosed : 15 Mar 2024-Wes Davis

PERDUE FARMS - GEORGETOWN SAVANAH RD GEORGETOWN, DE

US 19947
Certificate l2367 Test Package: FLEET
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.

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

