

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id DT796 Component Front Differential Fluid CHEVRON DELO SYNTHETIC GEAR 75W90 (--- QTS)

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

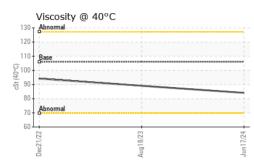
The condition of the oil is acceptable for the time in service.

| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
|--|---|--|--|--|--|--|
| Sample Number | | Client Info | | PCA0089201 | PCA0074017 | PCA0080982 |
| Sample Date | | Client Info | | 17 Jun 2024 | 18 Aug 2023 | 21 Dec 2022 |
| Machine Age | mls | Client Info | | 133409 | 103036 | 78459 |
| Oil Age | mls | Client Info | | 54950 | 24577 | 78459 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Changed |
| Sample Status | | | | NORMAL | NORMAL | ABNORMAL |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >.2 | NEG | NEG | NEG |
| WEAR METAL | S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >500 | 85 | 83 | 187 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | 1 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | <1 | 1 | 1 |
| Lead | ppm | ASTM D5185m | >25 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >100 | 10 | <1 | 41 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 200 | 201 | 252 |
| Barium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 11 | 11 | <1 |
| Manganese | ppm | ASTM D5185m | | 5 | 2 | 21 |
| Magnesium | ppm | ASTM D5185m | | 117 | 120 | <1 |
| Calcium | ppm | ASTM D5185m | | 183 | 176 | 6 |
| Phosphorus | ppm | ASTM D5185m | | 1310 | 1439 | 1395 |
| Zinc | ppm | ASTM D5185m | | 183 | 176 | 8 |
| Sulfur | ppm | ASTM D5185m | | 23170 | 23480 | 25056 |
| CONTAMINAN | ITS | method | | | | In the Lowert of |
| | | methou | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | | current 22 | history1 12 | 46 |
| Silicon Sodium | | | | | | |
| | ppm | ASTM D5185m | >75 | 22 | 12 | 46 |
| Sodium | ppm ppm | ASTM D5185m ASTM D5185m | >75 | 22 3 | 12 2 | 46 5 |
| Sodium Potassium | ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m | >75 >20 | 22 3 2 current NONE | 12 2 0 | 46 5 3 |
| Sodium Potassium VISUAL | ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m method *Visual *Visual | >75 >20 limit/base | 22 3 2 current | 12 2 0 history1 | 46 5 3 history2 |
| Sodium Potassium VISUAL White Metal Yellow Metal Precipitate | ppm ppm ppm scalar | ASTM D5185m ASTM D5185m ASTM D5185m method *Visual *Visual *Visual | >75 >20 limit/base NONE NONE NONE | 22 3 2 current NONE NONE NONE | 12 2 0 history1 NONE | 46 5 3 history2 NONE NONE NONE |
| Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt | ppm ppm ppm scalar scalar | ASTM D5185m ASTM D5185m ASTM D5185m •Visual *Visual *Visual *Visual | >75 >20 limit/base NONE NONE NONE NONE | 22 3 2 current NONE NONE NONE NONE | 12 2 0 history1 NONE NONE NONE NONE | 46 5 3 history2 NONE NONE NONE NONE |
| Sodium Potassium VISUAL White Metal Yellow Metal Precipitate | ppm ppm ppm scalar scalar scalar | ASTM D5185m ASTM D5185m ASTM D5185m method *Visual *Visual *Visual | >75 >20 limit/base NONE NONE NONE | 22 3 2 current NONE NONE NONE NONE NONE | 12 2 0 history1 NONE NONE NONE | 46 5 3 history2 NONE NONE NONE |
| Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt | ppm ppm scalar scalar scalar scalar | ASTM D5185m ASTM D5185m ASTM D5185m •Visual *Visual *Visual *Visual | >75 >20 limit/base NONE NONE NONE NONE | 22 3 2 current NONE NONE NONE NONE | 12 2 0 history1 NONE NONE NONE NONE | 46 5 3 history2 NONE NONE NONE NONE |
| Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris | ppm ppm scalar scalar scalar scalar scalar | ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual | >75 >20 limit/base NONE NONE NONE NONE NONE | 22 3 2 current NONE NONE NONE NONE NONE | 12 2 0 history1 NONE NONE NONE NONE NONE | 46 5 3 NONE NONE NONE NONE NONE NONE NONE |
| Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt | ppm ppm scalar scalar scalar scalar scalar scalar | ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual | >75 >20 Iimit/base NONE NONE NONE NONE NONE | 22 3 2 current NONE NONE NONE NONE NONE NONE | 12 2 0 history1 NONE NONE NONE NONE NONE | 46 5 3 NONE NONE NONE NONE NONE NONE NONE |
| Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance | ppm ppm scalar scalar scalar scalar scalar scalar scalar | ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual | >75 >20 Iimit/base NONE NONE NONE NONE NONE NONE NONE NORE | 22 3 2 current NONE NONE NONE NONE NONE NONE NORML | 12 2 0 history1 NONE NONE NONE NONE NONE NONE NONE | 46 5 3 NONE NONE NONE NONE NONE NONE NONE NO |
| Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor | ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar | ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual | >75 20 imit/base NONE NONE NONE NONE NONE NORML NORML >.2 | 22 3 2 current NONE NONE NONE NONE NONE NORML NORML NORML NEG NEG | 12 2 0 history1 NONE NONE NONE NONE NONE NORML NORML | 46 5 3 NONE NONE NONE NONE NONE NORML NORML NEG NEG |

Report Id: NWWDUN [WUSCAR] 06223856 (Generated: 07/01/2024 16:48:07) Rev: 1



OIL ANALYSIS REPORT



| | ERTIES | method | limit/base | current | history1 | histor |
|---|------------|-----------|------------|---------|----------|---------|
| Visc @ 40°C | cSt | ASTM D445 | 106 | 84.1 | 89.1 | 94.2 |
| SAMPLE IMA | GES | method | limit/base | current | history1 | histor |
| | | | | | | |
| Color | | | | | no image | no imag |
| - | | | | | | |
| | | | | | | |
| Bottom | | | | | no image | no imag |
| | | | | | | |
| GRAPHS | | | | | | |
| Ferrous Alloys | | | | | | |
| 180 - iron | | | | | | |
| 160 nickel | | | | | | |
| 120 | | | | | | |
| 톱 100 - 80 - | | | | | | |
| 60 - | | | | | | |
| 40 | | | | | | |
| 0 | | | | | | |
| Dec21/22 | Aug18/23 | | Jun 17/24 | | | |
| ے Non-ferrous Met | | | ٦٢ | | | |
| 45 conner | | | | | | |
| 40 35 | | | | | | |
| 30 | | | | | | |
| E ²⁵ 20 | | | | | | |
| 15 | | | | | | |
| 10- | | | | | | |
| 5 | 1- | | | | | |
| 1/22 | Aug18/23 | | Jun17/24 | | | |
| Dec21/22 | | | Jun1 | | | |
| Viscosity @ 40°C | 2 | | | | | |
| 120 - | 1 | | | | | |
| 110 | | | | | | |
| Dase | | | | | | |
| (), 100 (), 10 | | | | | | |
| 80 | | | | | | |
| 70 - Abnormal | | | | | | |
| 60 | | | | | | |
| | Aug18/23 - | | Jun17/24 - | | | |
| Dec21/22 | | | - | | | |

FLUID PROPERTIES method limit/base current history1 history2



Unique Number : 11102053 Diagnosed : 01 Jul 2024 - Don Baldridge Test Package : FLEET Certificate 12367 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)

US 29334 Contact: Matt Quinlan mquinlan@nwwhite.com T: (864)905-8506 F:

Submitted By: moved here from NWWGRE - Matt Quinlan