

OIL ANALYSIS REPORT



Machine Id

913178

Component Diesel Engine Fluid DETEC CANADA DUBON SHD 15W40 (

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

🔺 Wear

Exhaust valve wear is indicated.

Contamination

There is no indication of any contamination in the oil.

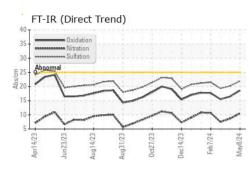
Fluid Condition

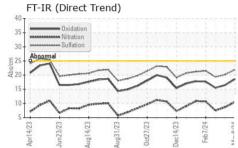
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

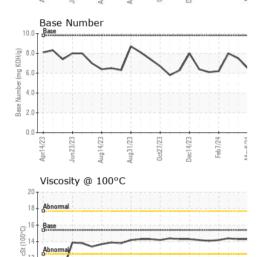
| Sample Date Client Info 08 May 2024 18 Apr 2024 20 Mar 2024 Vachine Age hrs Client Info 2890 2709 2547 Dil Age hrs Client Info 181 162 153 Dil Changed Client Info Changed Changed ABNORMAL ABNORMAL NORMAL Sample Status Client Info Imit/base current history1 history2 Fuel WC Method >5 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Silvol WC Method >0.2 NEG NEG NEG Vickel ppm ASTM 05185m >100 15 9 6 Chromium ppm ASTM 05185m >20 <1 <1 1 Vickel ppm ASTM 05185m >3 <1 <1 0 Auminum ppm ASTM 05185m >3 <1 <1 0 | SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
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| FLUID DEGRADATION method limit/base current history1 history2 | ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | method ASTM D5185m | 0 0 0 1010 1070 1150 1270 2060 limit/base >25 | current 7 0 65 <1 938 1105 1031 1256 3346 current 7 3 6 current | history1 9 0 62 1 904 1061 1094 1211 3310 history1 7 1 4 history1 | history2 13 0 62 <1 |
| | ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED | ppm ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm | method ASTM D5185m | 0 0 0 1010 1070 1150 1270 2060 limit/base >25 >20 limit/base >3 | current 7 0 65 <1 938 1105 1031 1256 3346 current 7 3 6 current 0.5 | history1 9 0 62 1 904 1061 1094 1211 3310 history1 7 1 4 history1 0.4 | history2 13 0 62 <1 1006 1180 1084 1348 3927 history2 4 3 history2 0 history2 0.2 |
| | ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % | ppm ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm | method ASTM D5185m | 0 0 0 1010 1070 1150 1270 2060 limit/base >25 20 limit/base >20 | current 7 0 65 <1 938 1105 1031 1256 3346 current 7 3 6 current 0.5 10.5 | history1 9 0 62 1 904 1061 1094 1211 3310 history1 7 1 4 history1 0.4 8.7 | history2 13 0 62 <1 1006 1180 1084 1348 3927 history2 4 3 history2 0 0.2 7.5 |
| Dxidation Abs/.1mm *ASTM D7414 >25 18.6 16.5 15.5 | ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | method ASTM D5185m ASTM D5185m | 0 0 0 1010 1070 1150 1270 2060 limit/base >25 limit/base >20 limit/base >3 >20 | current 7 0 65 <1 938 1105 1031 1256 3346 current 7 3 6 current 0.5 10.5 21.9 | history1 9 0 62 1 904 1061 1094 1211 3310 history1 7 1 4 history1 0.4 8.7 20.2 | history2 13 0 62 <1 1006 1180 1084 1348 3927 history2 4 3 history2 0.2 7.5 19.3 |
| Base Number (BN) mg KOH/g ASTM D2896 9.8 6.5 7.5 8.0 | ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | method ASTM D5185m ASTM D7185 method *ASTM D7624 *ASTM D7415 method | 0 0 0 1010 1070 1150 1270 2060 limit/base >25 20 >20 limit/base >3 >20 >30 | current 7 0 65 <1 938 1105 1031 1256 3346 current 7 3 6 current 0.5 10.5 21.9 | history1 9 0 62 1 904 1061 1094 1211 3310 history1 7 1 4 history1 0.4 8.7 20.2 | history2 13 0 62 <1 1006 1180 1084 1348 3927 history2 4 3 history2 0.2 7.5 19.3 |



OIL ANALYSIS REPORT







Aug31/23

Dec14/23

0ct27/23

Feb7/24

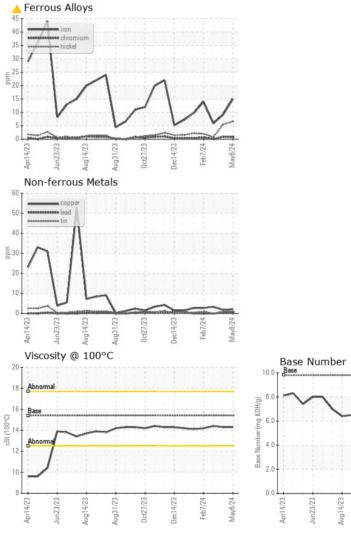
Laboratory

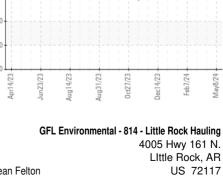
Sample No.

: GFL0119379

| VISUAL | | method | limit/base | 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 | NONE |
| 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 | >0.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |
| FLUID PROPE | RTIES | method | limit/base | current | history1 | history2 |
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 14.3 | 14.3 | 14.4 |
| | | | | | | |









2 Apr14/23

un73/75

Aug 14/23

Lab Number : 06178176 Tested : 14 May 2024 Unique Number : 11029502 Diagnosed : 15 May 2024 - Sean Felton Contact: Brad Koenig Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. bkoenig@gflenv.com * - 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)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

: 13 May 2024

Report Id: GFL814 [WUSCAR] 06178176 (Generated: 05/15/2024 16:28:04) Rev: 1

F: Submitted By: Nicole Walls

T: