

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

Machine Id

114 Component Diesel Engine Fluid PETRO CANADA DURON HP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|---------------|----------|-------------|-------------|-------------|-------------|-------------|
| Sample Number | | Client Info | | KFS0006000 | KFS0001564 | KFS0001213 |
| Sample Date | | Client Info | | 17 Apr 2024 | 19 Jul 2022 | 09 Apr 2022 |
| Machine Age | hrs | Client Info | | 7254 | 6073 | 5825 |
| Oil Age | hrs | Client Info | | 1181 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | ATTENTION | NORMAL | NORMAL |
| | | | | - | | |
| CONTAMINATION | N | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| | | method | limit/base | current | history1 | history? |
| WEAN METALS | | methou | IIIIII/Dase | current | Thistory | Thistory2 |
| Iron | ppm | ASTM D5185m | >100 | 17 | 3 | 8 |
| Chromium | ppm | ASTM D5185m | >20 | 2 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | 3 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | <1 | <1 |
| Aluminum | ppm | ASTM D5185m | >25 | 8 | 1 | 2 |
| Lead | ppm | ASTM D5185m | >40 | 2 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >330 | 9 | 2 | 6 |
| Tin | ppm | ASTM D5185m | >15 | 1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | nnm | ASTM D5185m | | 6 | 55 | 383 |
| Barium | nnm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 55 | 67 | 108 |
| Manganese | ppm | ASTM D5185m | | 1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 859 | 900 | 451 |
| Calcium | ppm | ASTM D5185m | | 1151 | 1113 | 1591 |
| Phosphorus | ppm | ASTM D5185m | | 1115 | 1067 | 1101 |
| Zinc | ppm | ASTM D5185m | | 1228 | 1232 | 1260 |
| Sulfur | ppm | ASTM D5185m | | 3657 | 3282 | 3094 |
| | 1-1- | | 11 1. 1 | | | |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 15 | 5 | 11 |
| Sodium | ppm | ASTM D5185m | | 4 | <1 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | <1 | <1 |
| Fuel | % | ASTM D3524 | >6.0 | 1.0 | <1.0 | <1.0 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 0.1 | 0.1 | 0.2 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 8.1 | 6.1 | 8.1 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 18.1 | 19.4 | 23.0 |
| | TION | | line it /l | | history d | history 0 |
| FLUID DEGRADA | MON | method | limit/base | current | nistory1 | nistory2 |
| Oxidation | | | | | | |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 14.5 | 14.4 | 16.2 |



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Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : KFS0006000 Received : 25 Apr 2024 855 N JAMES CAMPBELL BLVD Lab Number : 06160585 Tested : 30 Apr 2024 COLUMBIA, TN : 30 Apr 2024 - Jonathan Hester Unique Number : 10996008 Diagnosed US 38401 Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel) Contact: BEN HARNESS Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. ben@slectharness.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (615)733-4480 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) E:

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Submitted By: BILL ENYART

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