

## **OIL ANALYSIS REPORT**

Sample Date

Machine Age

Oil Changed

Oil Age

Water

Glycol

Iron

Nickel

Silver

Lead

Tin

Copper

Vanadium

Cadmium

Boron

Barium

Molybdenum

Manganese

Magnesium

Phosphorus

Calcium

Zinc

Sulfur

Silicon

Sodium

Fuel

Soot %

Nitration

Sulfation

Oxidation

Potassium

**INFRA-RED** 

ASTM D5185m

ASTM D5185m

ASTM D3524

method

\*ASTM D7844

\*ASTM D7624

\*ASTM D7415

method

\*ASTM D7414

>20

>3.0

>6

>20

>30

>25

limit/base

limit/base

ppm

ppm

%

%

FLUID DEGRADATION

Abs/cm

Abs/.1mm

Abs/.1mm Base Number (BN) mg KOH/g ASTM D2896 9.8

Titanium

Aluminum

Chromium

### (BC57481) 924011 Component

**Diesel Engine** 

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

#### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: Actual hours 2805 actual hours 2805. Services completed )

#### A Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core).

#### Contamination

Light fuel dilution occurring.

#### Fluid Condition

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



6

9

2.0

0.5

8.9

19.7

15.3

7.1

current

current

14

20

<1.0

0.5

8.7

21.5

15.9

8.0

history1

history1

18

12

1.2

0.3

6.8

21.2

14.9

8.7

history2

history2



# **OIL ANALYSIS REPORT**

