

## **OIL ANALYSIS REPORT**

#### NORMAL

#### Machine Id 2503

Component **Diesel Engine** 

Fluid

## PETRO CANADA DURON SHP 15W40 (10 GA

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

Sample DateClient Info18 Sep 202308 Jun 20232Machine AgehrsClient Info4776006Oil AgehrsClient Info6006006Oil ChangedClient InfoChangedChangedC	history2 iFL0073323 5 Apr 2023 00 00 hanged TTENTION history2 NEG bictory2
Sample DateClient Info18 Sep 202308 Jun 20232Machine AgehrsClient Info4776006Oil AgehrsClient Info6006006Oil ChangedClient InfoChangedChangedCSample StatusImather of the second	5 Apr 2023 00 00 hanged TTENTION history2 NEG
Machine AgehrsClient Info4776006Oil AgehrsClient Info6006006Oil ChangedClient InfoChangedChanged0Sample StatusImageImageNORMALABNORMALACONTAMINATIONmethodlimit/basecurrenthistory1GlycolWC MethodImit/basecurrenthistory1IronppmASTM D5185m>12025112	00 00 hanged TTENTION history2 NEG
Oil Age   hrs   Client Info   600   600   6     Oil Changed   Client Info   Changed   Changed   C     Sample Status   NORMAL   ABNORMAL   A     CONTAMINATION   method   limit/base   current   history1     Glycol   WC Method   NEG   NEG     WEAR METALS   method   limit/base   current   history1     Iron   ppm   ASTM D5185m<>120   251   12	00 hanged TTENTION history2 NEG
Oil Changed   Client Info   Changed   Changed   C     Sample Status   NORMAL   ABNORMAL   ABNORMAL   A     CONTAMINATION   method   limit/base   current   history1     Glycol   WC Method   NEG   NEG     WEAR METALS   method   limit/base   current   history1     Iron   ppm   ASTM D5185m<>120   251   12	hanged TTENTION history2 NEG
Sample Status   NORMAL   ABNORMAL   A     CONTAMINATION   method   limit/base   current   history1     Glycol   WC Method   NEG   NEG     WEAR METALS   method   limit/base   current   history1     Iron   ppm   ASTM D5185m<>120   251   12	TTENTION history2 NEG
CONTAMINATION   method   limit/base   current   history1     Glycol   WC Method   NEG   NEG     WEAR METALS   method   limit/base   current   history1     Iron   ppm   ASTM D5185m<>120   251   12	history2 NEG
Glycol WC Method NEG NEG   WEAR METALS method limit/base current history1   Iron ppm ASTM D5185m >120 251 12	NEG
WEAR METALS     method     limit/base     current     history1       Iron     ppm     ASTM D5185m     >120     251     12	
Iron ppm ASTM D5185m >120 251 12	history 0
- hb - e - e -	history2
Chromium ppm ASTM D5185m >20 14 <1	4
	<1
Nickel ppm ASTM D5185m >5 2 3	1
Titanium     ppm     ASTM D5185m     >2     <1     <1	0
Silver ppm ASTM D5185m >2 0 0	0
Aluminum ppm ASTM D5185m >20 22 <1	1
_ead ppm ASTM D5185m >40 7 <1	0
Copper ppm ASTM D5185m >330 8 14	6
Fin     ppm     ASTM D5185m     >15     <1     1	<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 0 18 9	27
Barium     ppm     ASTM D5185m     0     0     2	0
Molybdenum ppm ASTM D5185m 60 97 108	97
Manganese     ppm     ASTM D5185m     0     3     <1	<1
Magnesium     ppm     ASTM D5185m     1010     461     689	786
Calcium     ppm     ASTM D5185m     1070     2180     1172	1239
Phosphorus ppm ASTM D5185m 1150 1182 833	947
Zinc ppm ASTM D5185m 1270 1521 1031	1139
Sulfur     ppm     ASTM D5185m     2060     4256     3026	3914
CONTAMINANTS method limit/base current history1	history2
Silicon ppm ASTM D5185m >25 <b>17</b> 11	3
	2
	4
Sodium ppm ASTM D5185m 54 2	<1
Sodium     ppm     ASTM D5185m     54     2       Potassium     ppm     ASTM D5185m     >20     26     1	<1 <1.0
Sodium     ppm     ASTM D5185m     54     2       Potassium     ppm     ASTM D5185m     >20     26     1	
Sodium     ppm     ASTM D5185m     54     2       Potassium     ppm     ASTM D5185m     >20     26     1       Fuel     %     ASTM D3524     >3.0     0.3     3.7       INFRA-RED     method     limit/base     current     history1	<1.0
Sodium     ppm     ASTM D5185m     54     2       Potassium     ppm     ASTM D5185m     >20     26     1       Fuel     %     ASTM D3524     >3.0     0.3     A 3.7       INFRA-RED     method     limit/base     current     history1       Soot %     %     *ASTM D7844     >4     1.1     0.4	<1.0 history2
Sodium     ppm     ASTM D5185m     54     2       Potassium     ppm     ASTM D5185m     >20     26     1       Fuel     %     ASTM D5185m     >20     26     1       Fuel     %     ASTM D5185m     >3.0     0.3     ▲ 3.7       INFRA-RED     method     limit/base     current     history1       Soot %     %     *ASTM D7844     >4     1.1     0.4       Nitration     Abs/cm     *ASTM D7624     >20     15.4     8.3	<1.0 history2 0.2
Sodium     ppm     ASTM D5185m     54     2       Potassium     ppm     ASTM D5185m     >20     26     1       Fuel     %     ASTM D5185m     >20     26     1       Fuel     %     ASTM D5185m     >3.0     0.3     ▲ 3.7       INFRA-RED     method     limit/base     current     history1       Soot %     %     *ASTM D7844     >4     1.1     0.4       Nitration     Abs/cm     *ASTM D7624     >20     15.4     8.3	<1.0 history2 0.2 6.1
Sodium     ppm     ASTM D5185m     54     2       Potassium     ppm     ASTM D5185m<>20     26     1       Fuel     %     ASTM D3524<>3.0     0.3     ▲ 3.7       INFRA-RED     method     limit/base     current     history1       Soot %     %     *ASTM D7844<>4     1.1     0.4       Nitration     Abs/cm     *ASTM D7624<>20     15.4     8.3       Sulfation     Abs/.1mm     *ASTM D7415<>30     32.0     20.7       FLUID DEGRADATION     method     limit/base     current     history1	<1.0 history2 0.2 6.1 16.9 history2
Sodium     ppm     ASTM D5185m     54     2       Potassium     ppm     ASTM D5185m<>20     26     1       Fuel     %     ASTM D3524     >3.0     0.3     ▲ 3.7       INFRA-RED     method     limit/base     current     history1       Soot %     %     *ASTM D7844     >4     1.1     0.4       Nitration     Abs/cm     *ASTM D7624     >20     15.4     8.3       Sulfation     Abs/.1mm     *ASTM D7415     >30     32.0     20.7	<1.0 history2 0.2 6.1 16.9



# **OIL ANALYSIS REPORT**

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

15.8

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

▲ 10.7

NONE

NONE

NONE

NONE

NONE

NONE

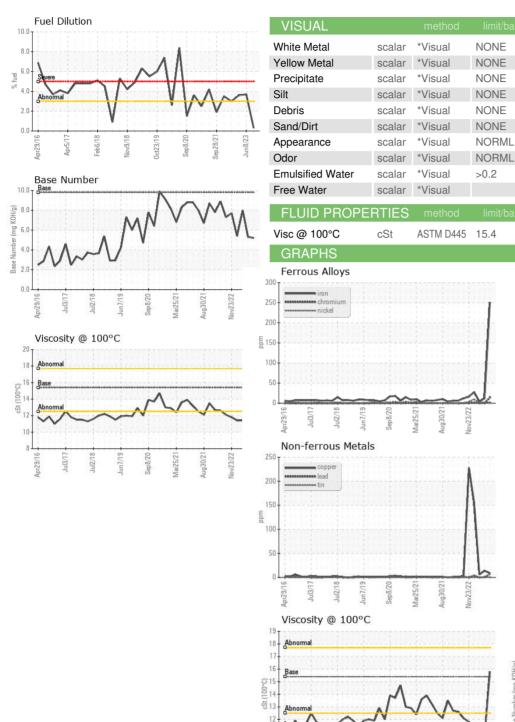
NORML

NORML

NEG

NEG

▲ 11.4



10

0 Apr29/16

Laboratory

Sample No.

Lab Number

Unique Number

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

12/18

Test Package : FLEET ( Additional Tests: PercentFuel )

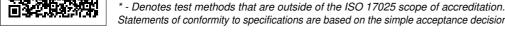
: GFL0087933

: 05964430

: 10670981

To discuss this sample report, contact Customer Service at 1-800-237-1369.

ep8/20



Certificate L2367

Submitted By: See also GFL960B, 960C, 960D - David Bradshaw

ul2/1

Base Number

10.

6 (

0.0

Apr29/1

(B/HOX Bu)

ase

Vov23/22

: 29 Sep 2023

: 03 Oct 2023

: Angela Borella

Aar25/2

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

Diagnostician

Received

Diagnosed