

### **OIL ANALYSIS REPORT**

Sample Rating Trend





4627M Component Diesel Engine Fluid

# PETRO CANADA DURON SHP 15W40 (5 QTS)

Recommendation	
Recommendation	

Resample at the next service interval to monitor. ( Customer Sample Comment: Early sampled  $\)$ 

Machine Id

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

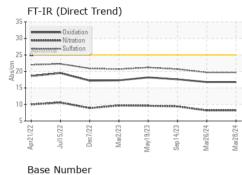
#### Fluid Condition

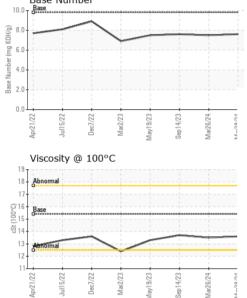
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Number   Client Info   GFL0115084   GFL0115106   GFL     Sample Date   Client Info   28 Mar 2024   26 Mar 2024   14 S     Machine Age   hrs   Client Info   21445   21441   2005     Oil Age   hrs   Client Info   256   0   750     Oil Changed   Client Info   Not Changd   Not Changd   Changd   Not Changd     Sample Status   Client Info   Nort Changd   Not Changd   Nort Changd   Nort Changd   Nort Changd     CONTAMINATION   method   limit/base   current   history1   Nort Sample Number   Nort Sample Number   Nort Sample Number     Fuel   WC Method   >3.0   <1.0   <1.0   <   Nort Sample Number   Nort Sampl	nged RMAL history2 1.0 EG EG history2
Sample DateClient Info28 Mar 202426 Mar 202414 SMachine AgehrsClient Info21445214412005Oil AgehrsClient Info2560750Oil ChangedClient InfoNot ChangdNot ChangdChangedSample StatusClient InfoNot ChangdNot ChangdChangedSample StatusImit/basecurrenthistory1FuelWC Method>3.0<1.0<1.0<WaterWC Method>0.2NEGNEGNGlycolWC Method>0.2NEGNEGNWEAR METALSmethodlimit/basecurrenthistory1IronppmASTM D5185m>9026242ChromiumppmASTM D5185m>201<11NickelppmASTM D5185m>2000SilverppmASTM D5185m>20244LeadppmASTM D5185m>20244LeadppmASTM D5185m>33000<TinppmASTM D5185m>15<1<1<1<VanadiumppmASTM D5185m>15<1<1<1<ADDITIVESmethodlimit/basecurrenthistory1	ep 2023 54 anged AMAL history2 1.0 EG EG history2
Machine AgehrsClient Info21445214412005Oil AgehrsClient Info2560750Oil ChangedClient InfoNot ChangdNot ChangdChangdSample StatusImathedImit/basecurrenthistory1CONTAMINATIONmethodlimit/basecurrenthistory1FuelWC Method>3.0<1.0	54 nged RMAL history2 1.0 EG EG history2
Dil AgehrsClient Info2560750Dil ChangedClient InfoNot ChangdNot ChangdChangdSample StatusImit/baseCurrentNORMALNORMALCONTAMINATIONmethodlimit/basecurrenthistory1FuelWC Method>3.0<1.0	nged RMAL history2 1.0 EG EG history2
Di Changed Sample StatusClient InfoNot Changd NORMALNot Changd NORMALNORMALNORMALNORMALNORFuelWC Method>3.0<1.0	AMAL history2 1.0 EG EG history2
Sample StatusNORMALNORMALNORMALNORCONTAMINATIONmethodlimit/basecurrenthistory1FuelWC Method>3.0<1.0	AMAL history2 1.0 EG EG history2
CONTAMINATIONmethodlimit/basecurrenthistory1FuelWC Method>3.0<1.0	history2 1.0 EG EG history2
Fuel   WC Method   >3.0   <1.0   <1.0   <     Water   WC Method   >0.2   NEG   NEG   N     Glycol   WC Method   >0.2   NEG   N   N     WEAR METALS   method   limit/base   current   history1     Iron   ppm   ASTM D5185m   >90   26   24   2     Chromium   ppm   ASTM D5185m   >20   1   <1	1.0 EG EG history2
WaterWC Method>0.2NEGNEGNGlycolWC MethodNEGNEGNWEAR METALSmethodlimit/basecurrenthistory1ronppmASTM D5185m>90262422ChromiumppmASTM D5185m>201<1	EG EG history2
Glycol   WC Method   NEG   NEG   N     WEAR METALS   method   limit/base   current   history1     ron   ppm   ASTM D5185m   >90   26   24   22     Chromium   ppm   ASTM D5185m   >20   1   <1	EG history2
WEAR METALS   method   limit/base   current   history1     ron   ppm   ASTM D5185m   >90   26   24   22     Chromium   ppm   ASTM D5185m   >20   1   <1	history2
ron   ppm   ASTM D5185m   >90   26   24   2     Chromium   ppm   ASTM D5185m   >20   1   <1   1     Nickel   ppm   ASTM D5185m   >20   1   <1   1     Nickel   ppm   ASTM D5185m   >2   0   <1   0     Titanium   ppm   ASTM D5185m   >2   0   0   0   0     Silver   ppm   ASTM D5185m   >2   0   0   0   0     Aluminum   ppm   ASTM D5185m   >20   2   4   4     Lead   ppm   ASTM D5185m   >40   0   0   <     Copper   ppm   ASTM D5185m   >330   0   0   <     Vanadium   ppm   ASTM D5185m   >15   <1   <1   <<     Qadminum   ppm   ASTM D5185m   >0   0   0   0   0     Cadminum   ppm   ASTM D5185m <th< td=""><td></td></th<>	
Description   ppm   ASTM D5185m   >20   1   <1   1     Nickel   ppm   ASTM D5185m   >2   0   <1	1
Nickel   ppm   ASTM D5185m   >2   0   <1   0     Titanium   ppm   ASTM D5185m   >2   0   0   0   0     Silver   ppm   ASTM D5185m   >2   0   0   0   0     Aluminum   ppm   ASTM D5185m   >20   2   4   4     Lead   ppm   ASTM D5185m   >40   0   0   <	
Titanium   ppm   ASTM D5185m   >2   0   0   0     Silver   ppm   ASTM D5185m   >2   0   0   0   0     Aluminum   ppm   ASTM D5185m   >20   2   4   4     Lead   ppm   ASTM D5185m   >40   0   0   <	
Silver   ppm   ASTM D5185m   >2   0   0   0     Aluminum   ppm   ASTM D5185m   >20   2   4   4     Lead   ppm   ASTM D5185m   >40   0   0   <     Copper   ppm   ASTM D5185m   >330   0   0   <     Cipper   ppm   ASTM D5185m   >330   0   0   <     Cipper   ppm   ASTM D5185m   >15   <1   <1   <     Vanadium   ppm   ASTM D5185m   >15   <0   0   0     Cadmium   ppm   ASTM D5185m   0   0   0   0     ADDITIVES   method   limit/base   current   history1	
Aluminum   ppm   ASTM D5185m   >20   2   4   4     _ead   ppm   ASTM D5185m   >40   0   0   <	
Lead   ppm   ASTM D5185m   >40   0   0   <     Copper   ppm   ASTM D5185m   >330   0   0   <	
Copper   ppm   ASTM D5185m   >330   0   0   <     Fin   ppm   ASTM D5185m   >15   <1	
Fin   ppm   ASTM D5185m   >15   <1   <1   <     /anadium   ppm   ASTM D5185m   0   0   0   0     Cadmium   ppm   ASTM D5185m   0   0   0   0     ADDITIVES   method   limit/base   current   history1	
VanadiumppmASTM D5185mO00CadmiumppmASTM D5185mO00ADDITIVESmethodlimit/basecurrenthistory1	
Cadmium   ppm   ASTM D5185m   0	1
ADDITIVES method limit/base current history1	
	history2
Boron   ppm   ASTM D5185m   0   4   3   2	
Barium   ppm   ASTM D5185m   O	
Molybdenum ppm ASTM D5185m 60 59 55 59	
Manganese   ppm   ASTM D5185m   0   <1   <1   <	
	74
	)32
	38
	239 135
	history2
Silicon   ppm   ASTM D5185m   >25   6   5   6     Sodium   ppm   ASTM D5185m   4   4   2	
Potassium   ppm   ASTM D5185m   4   4   2     Potassium   ppm   ASTM D5185m   >20   0   2   2	
	histow O
	history2
Soot % % *ASTM D7844 >6 0.2 0.2 0.	
	1
	4
	).7
FLUID DEGRADATION method limit/base current history1	).7 history2
FLUID DEGRADATION method limit/base current history1   Oxidation Abs/.1mm *ASTM D7414 >25 16.8 16.8 1	).7



## **OIL ANALYSIS REPORT**







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

Certificate L2367