

OIL ANALYSIS REPORT

Sample Rating Trend





Component **Diesel Engine** Fluid

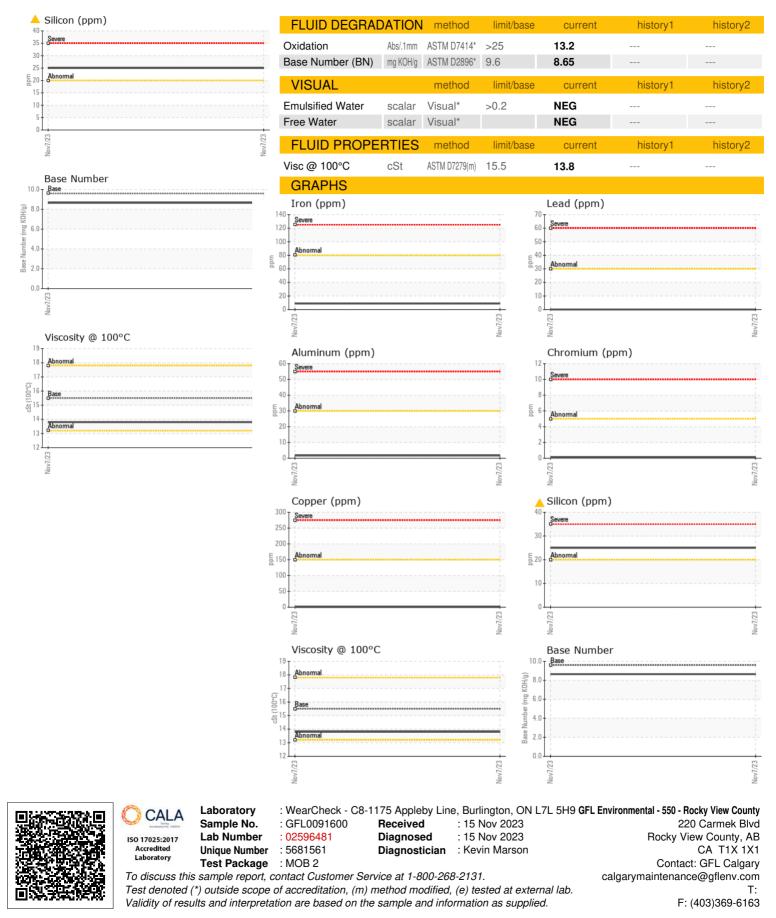
Machine Id 801103

PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.Sample DateClient Info07 Nov 2023Oil AgehrsClient Info5258Oil ChangedClient Info0Oil ChangedClient Info0	
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resample to monitor this condition. Oil Changed Client Info Changed	
Wear Sample Status ABNORMAL	
All component wear rates are normal. CONTAMINATION method limit/base current history1	history2
Contamination Fuel WC Method >5 <1.0	
There is a moderate concentration of dirt present in Glycol WC Method NEG	
Fluid Condition WEAR METALS method limit/base current history1	history2
The BN result indicates that there is suitable Iron ppm ASTM D5185(m) >80 9	
alkalinity remaining in the oil. The oil is no longer Chromium ppm ASTM D5185(m) >5 <1	
serviceable due to the presence of contaminants. Nickel ppm ASTM D5185(m) >2 0	
Titanium ppm ASTM D5185(m) 0	
Silver ppm ASTM D5185(m) >3 <1	
Aluminum ppm ASTM D5185(m) >30 2	
Lead ppm ASTM D5185(m) >30 0	
Copper ppm ASTM D5185(m) >150 <1	
Tin ppm ASTM D5185(m) >5 0	
Antimony ppm ASTM D5185(m) 0	
Vanadium ppm ASTM D5185(m) 0	
Beryllium ppm ASTM D5185(m) 0	
Cadmium ppm ASTM D5185(m) 0	
ADDITIVES method limit/base current history1	history2
Boron ppm ASTM D5185(m) 1 3	
Barium ppm ASTM D5185(m) 1 <1	
Molybdenum ppm ASTM D5185(m) 60 55	
Manganese ppm ASTM D5185(m) 1 0	
Manganese ppm ASTM D5185(m) 1 0	
Marganese ppm Asim bition(iii) i o Magnesium ppm ASTM D5185(m) 1010 915	
Magnesium ppm ASTM D5185(m) 1010 915	
Magnesium ppm ASTM D5185(m) 1010 915 Calcium ppm ASTM D5185(m) 1070 1039	
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Magnesium ppm ASTM D5185(m) 1010 915 Calcium ppm ASTM D5185(m) 1070 1039 Phosphorus ppm ASTM D5185(m) 1150 978 Zinc ppm ASTM D5185(m) 1270 1135	
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Magnesium ppm ASTM D5185(m) 1010 915 Calcium ppm ASTM D5185(m) 1070 1039 Phosphorus ppm ASTM D5185(m) 1150 978 Zinc ppm ASTM D5185(m) 1270 1135 Sulfur ppm ASTM D5185(m) 2060 2496 Lithium ppm ASTM D5185(m) Calcium	
Magnesium ppm ASTM D5185(m) 1010 915 Calcium ppm ASTM D5185(m) 1070 1039 Phosphorus ppm ASTM D5185(m) 1150 978 Zinc ppm ASTM D5185(m) 1270 1135 Sulfur ppm ASTM D5185(m) 2060 2496 Lithium ppm ASTM D5185(m) <	 history2
Magnesium ppm ASTM D5185(m) 1010 915 Calcium ppm ASTM D5185(m) 1070 1039 Phosphorus ppm ASTM D5185(m) 1150 978 Zinc ppm ASTM D5185(m) 1270 1135 Sulfur ppm ASTM D5185(m) 2060 2496 Lithium ppm ASTM D5185(m) I <	 history2
Magnesium ppm ASTM D5185(m) 1010 915 Calcium ppm ASTM D5185(m) 1070 1039 Phosphorus ppm ASTM D5185(m) 1150 978 Zinc ppm ASTM D5185(m) 1270 1135 Sulfur ppm ASTM D5185(m) 2060 2496 Lithium ppm ASTM D5185(m) 2060 2496 Sulfur ppm ASTM D5185(m) 2060 2496 Lithium ppm ASTM D5185(m) 206 21 Silicon ppm ASTM D5185(m) >20 25 Sodium ppm ASTM D5185(m) >20 25	 history2
Magnesium ppm ASTM D5185(m) 1010 915 Calcium ppm ASTM D5185(m) 1070 1039 Phosphorus ppm ASTM D5185(m) 1150 978 Zinc ppm ASTM D5185(m) 1270 1135 Sulfur ppm ASTM D5185(m) 2060 2496 Lithium ppm ASTM D5185(m) 2060 2496 Solicon ppm ASTM D5185(m) 2060 2496 Silicon ppm ASTM D5185(m) >20 Aistory1 Solium ppm ASTM D5185(m) >20 1 Potassium ppm ASTM D5185(m) >20 0	 history2
MagnesiumppmASTM D5185(m)1010915CalciumppmASTM D5185(m)10701039PhosphorusppmASTM D5185(m)1150978ZincppmASTM D5185(m)12701135SulfurppmASTM D5185(m)20602496LithiumppmASTM D5185(m)20602496CONTAMINANTSmethodlimit/basecurrenthistory1SiliconppmASTM D5185(m)>2025SodiumppmASTM D5185(m)>200PotassiumppmASTM D5185(m)>200INFRA-REDmethodlimit/basecurrenthistory1	 history2 history2



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Contact/Location: GFL Calgary - GFL550