

OIL ANALYSIS REPORT



Machine Id **338695** Component **Diesel Engine** Fluid

PETRO CANADA DURON SHP 10W30 (--- QTS)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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 INFORMATIONmethodlimit/basecurrenthistory1history1Sample NumberClient InfoPCA0121055Sample DateClient Info08 May 2024Machine AgemlsClient Info0Oil AgemlsClient Info0Oil ChangedClient Info0Sample StatusImationImati/basecurrenthistory1historyFuelWC Method>5<1.0WaterWC Method>0.2NEGWEAR METALSmethodlimit/basecurrenthistory1history1IronppmASTM D5185m>100124ChromiumppmASTM D5185m>204
Sample Date Client Info 08 May 2024 Machine Age mls Client Info 48790 Oil Age mls Client Info 0 Oil Age mls Client Info 0 Oil Changed Client Info Changed Sample Status Imit/base Current history1 history1 Fuel WC Method >5 <1.0 Water WC Method >0.2 NEG Glycol WC Method >0.2 NEG WEAR METALS method limit/base current history1 history Iron ppm ASTM D5185m<>100 124
Machine Age mls Client Info 48790 Oil Age mls Client Info 0 Oil Changed Client Info O Sample Status Client Info NORMAL CONTAMINATION method limit/base current history1 history Fuel WC Method >5 <1.0 Water WC Method >0.2 NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >100 124
Oil Age mls Client Info 0 Oil Changed Client Info Changed Sample Status Client Info Changed CONTAMINATION method limit/base current history1 history Fuel WC Method >5 <1.0 Water WC Method >0.2 NEG Glycol WC Method NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >100 124
Oil Changed Client Info Changed Sample Status Imaged NORMAL Imaged Imag
Sample Status Image: Constant of the status Normal CONTAMINATION method limit/base current history1 history Fuel WC Method >5 <1.0 Water WC Method >0.2 NEG Glycol WC Method NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >100 124
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Fuel WC Method >5 <1.0
Water WC Method >0.2 NEG Glycol WC Method NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >100 124
Glycol WC Method NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >100 124
WEAR METALS method limit/base current history1 history Iron ppm ASTM D5185m >100 124
Iron ppm ASTM D5185m >100 124
Chromium ppm ASTM D5185m >20 4
Nickel ppm ASTM D5185m >4 0
Titanium ppm ASTM D5185m 0
Silver ppm ASTM D5185m >3 0
Aluminum ppm ASTM D5185m >20 48
Lead ppm ASTM D5185m >40 0
Copper ppm ASTM D5185m >330 37
Tin ppm ASTM D5185m >15 4
Vanadium ppm ASTM D5185m <1
Cadmium ppm ASTM D5185m 0
ADDITIVES method limit/base current history1 history
Boron ppm ASTM D5185m 2 13
Barium ppm ASTM D5185m 0 <1
Molybdenum ppm ASTM D5185m 50 48
Manganese ppm ASTM D5185m 0 9
Magnesium ppm ASTM D5185m 950 647
Calcium ppm ASTM D5185m 1050 1768
Phosphorus ppm ASTM D5185m 995 823
Zinc ppm ASTM D5185m 1180 1069
Sulfur ppm ASTM D5185m 2600 2717
CONTAMINANTS method limit/base current history1 history
Silicon ppm ASTM D5185m >25 13
Sodium ppm ASTM D5185m 9
Potassium ppm ASTM D5185m >20 84
INFRA-RED method limit/base current history1 history
Soot % *ASTM D7844 >3 0.9
Nitration Abs/cm *ASTM D7624 >20 14.2
Sulfation Abs/.1mm *ASTM D7415 >30 25.8
FLUID DEGRADATION method limit/base current history1 history
FLUID DEGRADATION method limit/base current history1 history1 Oxidation Abs/.1mm *ASTM D7414 >25 27.7



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30

/ps/cm

15

10

6.0 (B/H0) 5.0

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년 3.0

2.0 ASCP.

1.0

0.0

15

14

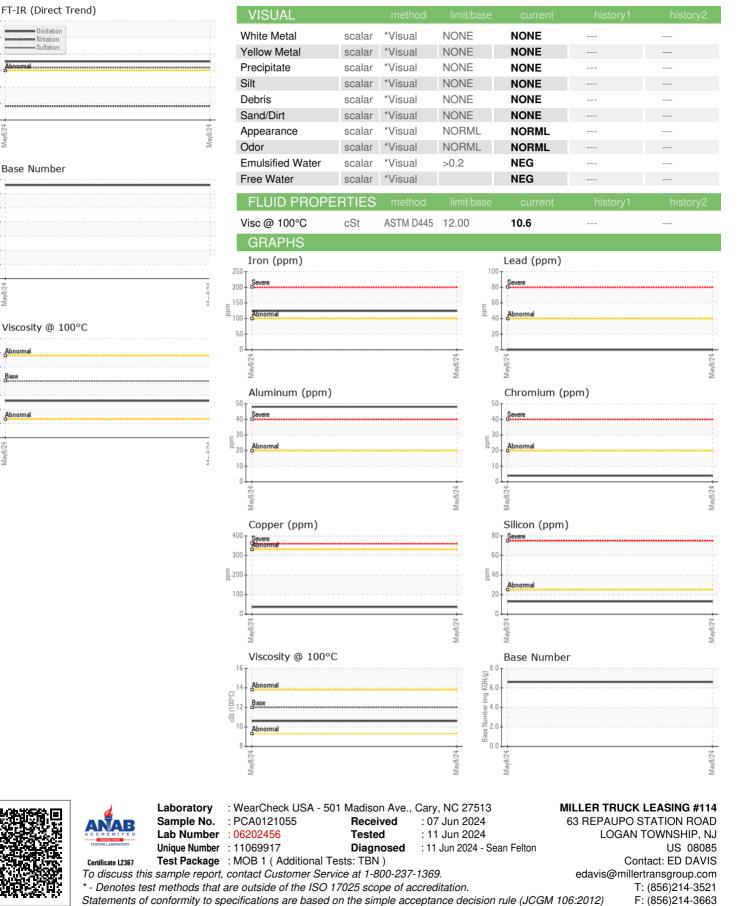
13 cSt (100°C) Ba

> 8 Mav8/24

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Mav8/74

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

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