

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area Supermarket - Tractor FREIGHTLINER 107A1809

Diesel Engine

Fluid PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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 NumberClient InfoPCA0124704PCA0111517Sample DateClient Info06 May 202415 Dec 2023Machine AgehrsClient Info10281167946Oil AgehrsClient Info3486526565Oil ChangedClient InfoAka6526565Sample StatusIImit/baseCurrenthistory1history2FuelWC Method>5<1.0
Machine Age hrs Client Info 102811 67946 Oil Age hrs Client Info 34865 26565 Oil Changed Client Info Changed Changed Sample Status Image NORMAL ABNORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0 <1.0 Water WC Method >0.2 NEG NEG Glycol WC Method >0.2 NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >80 51 32 Nickel ppm ASTM D5185m >2 <1 <1 Nickel ppm ASTM D5185m >3 0 <1 Silver ppm ASTM D5185m
Oil AgehrsClient Info3486526565Oil ChangedClient InfoChangedChangedSample StatusImather of the statusNORMALABNORMALCONTAMINATIONmethodlimit/basecurrenthistory1history2FuelWC Method>5<1.0<1.0WaterVWC Method>0.2NEGNEGGlycolWC Method>0.2NEGNEGWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185m>805132NickelppmASTM D5185m>532NickelppmASTM D5185m>30<1SilverppmASTM D5185m>30119AluminumppmASTM D5185m>30<11LeadppmASTM D5185m>30<11TinppmASTM D5185m>11
Oil Changed Sample StatusClient InfoChanged NORMALChanged ABNORMALCONTAMINATIONmethodlimit/basecurrenthistory1history2FuelWC Method>5<1.0<1.0WaterWC Method>0.2NEGNEGGlycolWC Method>0.2NEGNEGWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185m>805132NickelppmASTM D5185m>532NickelppmASTM D5185m>2<1<1SilverppmASTM D5185m>30119AluminumppmASTM D5185m>30<11LeadppmASTM D5185m>150142422TinppmASTM D5185m>511
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Fuel WC Method >5 <1.0
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GlycolWC MethodNEGNEGWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185m>805132ChromiumppmASTM D5185m>532NickelppmASTM D5185m>2<1<1TitaniumppmASTM D5185m>30<1SilverppmASTM D5185m>30119AluminumppmASTM D5185m>30<11LeadppmASTM D5185m>150142422TinppmASTM D5185m>511
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >80 51 32 Chromium ppm ASTM D5185m >5 3 2 Nickel ppm ASTM D5185m >2 <1 <1 Titanium ppm ASTM D5185m >2 <1 <1 Silver ppm ASTM D5185m >3 0 <1 Aluminum ppm ASTM D5185m >30 11 9 Lead ppm ASTM D5185m >30 <1 1 Copper ppm ASTM D5185m >30 <1 1 Tin ppm ASTM D5185m >30 <1 1
Iron ppm ASTM D5185m >80 51 32 Chromium ppm ASTM D5185m >5 3 2 Nickel ppm ASTM D5185m >2 <1 <1 Titanium ppm ASTM D5185m >2 <1 <1 Silver ppm ASTM D5185m >3 0 <1 Aluminum ppm ASTM D5185m >30 11 9 Lead ppm ASTM D5185m >30 <1 1 Tin ppm ASTM D5185m >30 <11 1
Chromium ppm ASTM D5185m >5 3 2 Nickel ppm ASTM D5185m >2 <1 <1 Titanium ppm ASTM D5185m >2 <1 <1 Silver ppm ASTM D5185m >3 0 <1 Aluminum ppm ASTM D5185m >30 11 9 Lead ppm ASTM D5185m >30 <1 1 Copper ppm ASTM D5185m >30 <1 1 Tin ppm ASTM D5185m >30 <1 1
Nickel ppm ASTM D5185m >2 <1
Titanium ppm ASTM D5185m <1
Titanium ppm ASTM D5185m <1
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Lead ppm ASTM D5185m >30 <1
Copper ppm ASTM D5185m >150 142 422 Tin ppm ASTM D5185m >5 1 1
Tin ppm ASTM D5185m >5 1 1
hb i in i
Vanadium ppm ASTM D5185m <1
Cadmium ppm ASTM D5185m <1
ADDITIVES method limit/base current history1 history2
Boron ppm ASTM D5185m 2 5 10
Barium ppm ASTM D5185m 0 2 0
Molybdenum ppm ASTM D5185m 50 76 14
Manganese ppm ASTM D5185m 0 3
Magnesium ppm ASTM D5185m 950 972 141
Calcium ppm ASTM D5185m 1050 2117 2382
Phosphorus ppm ASTM D5185m 995 1435 967
Zinc ppm ASTM D5185m 1180 1643 1210
Sulfur ppm ASTM D5185m 2600 3766 3208
CONTAMINANTS method limit/base current history1 history2
Silicon ppm ASTM D5185m >20 7 6
Sodium ppm ASTM D5185m 2 4
Potassium ppm ASTM D5185m >20 31 34
PotassiumppmASTM D5185m>20 31 34INFRA-REDmethodlimit/basecurrenthistory1history2
INFRA-RED method limit/base current history1 history2
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.9 0.7
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.9 0.7 Nitration Abs/cm *ASTM D7624 >20 9.1 8.2
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.9 0.7 Nitration Abs/cm *ASTM D7624 >20 9.1 8.2 Sulfation Abs/.1mm *ASTM D7415 >30 21.7 21.3



Abnorma

Dec15/23

OIL ANALYSIS REPORT

*Visual

*Visual

*Visual

scalar *Visual

scalar

scalar

scalar

NONE

NONE

NONE

NONE

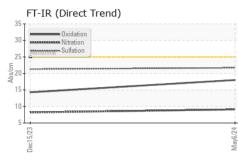
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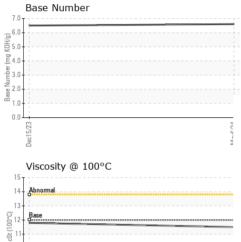
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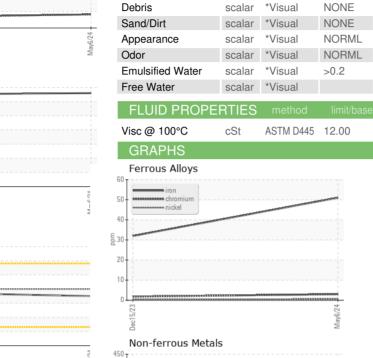
Yellow Metal

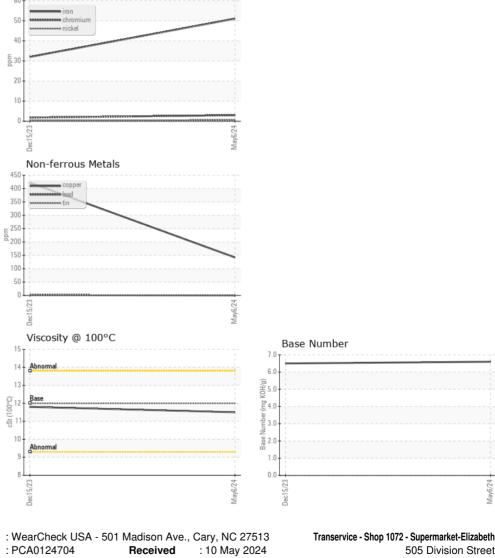
Precipitate

Silt









NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

11.5

NONE

NONE

NONE

NONE

NONE

NONE

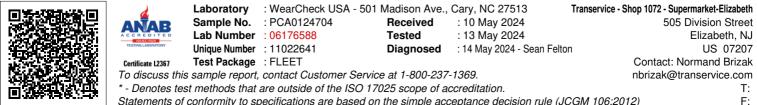
NORML

NORML

NEG

NEG

11.8



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

Report Id: TSV1072 [WUSCAR] 06176588 (Generated: 05/14/2024 14:44:25) Rev: 1