

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id KENWORTH M-156

Component Diesel Engine Fluid SHELL Rotella T5 15W-40 (7 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 acceptable for the time in service.

Sample NumberClient InfoPE0003329PE0003277PE0002390Sample DateClient Info01 May 202415 Mar 202407 Nov 2024Machine AgehrsClient Info241018800Oil AgehrsClient Info5305309626Oil ChangedClient InfoChangedChangedChangedSample StatusImit/baseCurrenthistory1history1FuelWC Method>3.0<1.02.22.2WaterWC Method>0.2NEGNEGNEGGlycolWC MethodImit/basecurrenthistory1history1	23 \L
Machine Age hrs Client Info 2410 1880 0 Oil Age hrs Client Info 530 530 9626 Oil Changed Client Info Changed Changed Changed Sample Status Imit/base Current MARGINAL ABNORMAL CONTAMINATION method limit/base current history1 history Fuel WC Method >3.0 <1.0 2.2 2.2 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG NEG	Ĺ
Oil Age hrs Client Info 530 530 9626 Oil Changed Client Info Changed Changed Changed Sample Status NORMAL MARGINAL ABNORMAL CONTAMINATION method limit/base current history1 history Fuel WC Method >3.0 <1.0 2.2 2.2 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG	
Oil Changed Client Info Changed Changed Changed Sample Status Image NORMAL MARGINAL ABNORMA CONTAMINATION method limit/base current history1 history Fuel WC Method >3.0 <1.0 2.2 2.2 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG	
Sample Status NORMAL MARGINAL ABNORMA CONTAMINATION method limit/base current history1 history Fuel WC Method >3.0 <1.0	
CONTAMINATIONmethodlimit/basecurrenthistory1historyFuelWC Method>3.0<1.0 \land 2.2 \land 2.2WaterWC Method>0.2NEGNEGNEGGlycolWC MethodNEGNEGNEG	
FuelWC Method>3.0<1.0	2
Water WC Method >0.2 NEG NEG Glycol WC Method NEG NEG	
Glycol WC Method NEG NEG NEG	
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WEAR METALS method limit/base current history1 history	
	2
Iron ppm ASTM D5185m >90 17 31 61	
Chromium ppm ASTM D5185m >20 1 2 2	
Nickel ppm ASTM D5185m >2 <1	
Titanium ppm ASTM D5185m >2 <1	
Silver ppm ASTM D5185m >2 <1	
Aluminum ppm ASTM D5185m >20 7 13 16	
Lead ppm ASTM 05100m >20 1 13 10 Lead ppm ASTM 05185m >40 1 3 2	
Copper ppm ASTM D5185m >330 3 9 40	
Tin ppm ASTM D5185m >15 1 2 3	
Vanadium ppm ASTM D5185m <1	
Cadmium ppm ASTM DS100m <1	
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ADDITIVES method limit/base current history1 history	2
Boron ppm ASTM D5185m 64 34 49	
Barium ppm ASTM D5185m 0 <1	
Molybdenum ppm ASTM D5185m 114 82 13	
Manganese ppm ASTM D5185m <1	
Magnesium ppm ASTM D5185m 29 79 748	
Calcium ppm ASTM D5185m 2835 2149 1308	
Phosphorus ppm ASTM D5185m 1295 1093 719	
Zinc ppm ASTM D5185m 1556 1188 864	
Sulfur ppm ASTM D5185m 4846 4154 2833	
CONTAMINANTS method limit/base current history1 history	2
Silicon ppm ASTM D5185m >25 8 12 ▲ 45	
Sodium ppm ASTM D5185m 4 4 5	
Potassium ppm ASTM D5185m >20 13 40 58	
INFRA-RED method limit/base current history1 history	2
Soot % *ASTM D7844 >6 0.2 0.3 0.2	
Nitration Abs/cm *ASTM D7624 >20 9.8 10.5 10.2	
Nitration Abs/cm *ASTM D7624 >20 9.8 10.5 10.2	2
Nitration Abs/cm *ASTM D7624 >20 9.8 10.5 10.2 Sulfation Abs/.1mm *ASTM D7415 >30 19.5 23.5 21.1	2



3

30

2!

Abs/cm

10

12.0

(mg KOH/g)

6.0

4 (Base

> 20 1

cSt (100°C) 1

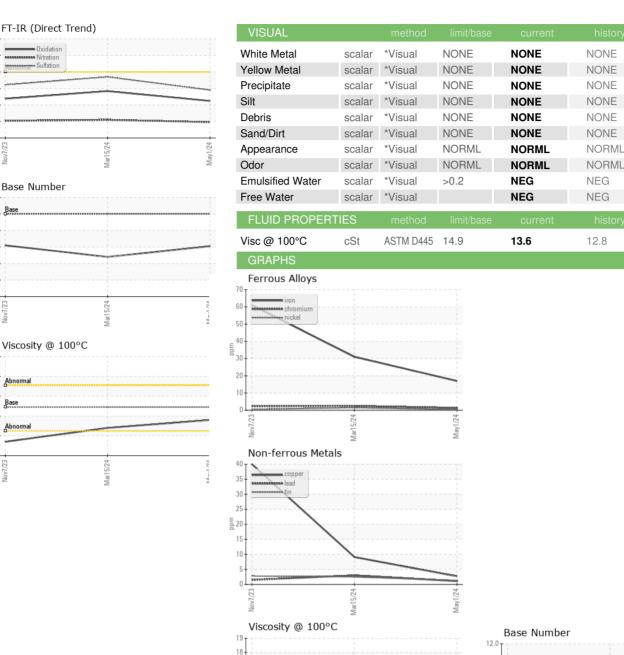
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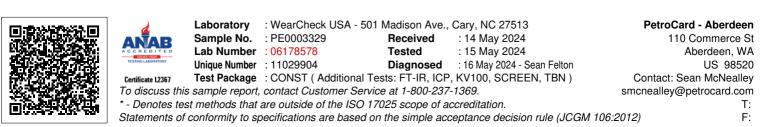
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Abnorma

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OIL ANALYSIS REPORT





Mar15/24

16

12

10

Vov7/23

cSt (100°C)

10 K0H/g

8 (

6. 4.0 ase

2 (

0.0

Vav7/73

May1/24 -

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Submitted By: ED ROZMARYN

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NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

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