

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

KENWORTH T800 727 (S/N BXS08100)

Component Diesel Engine Fluid SHELL ROTELLA T 15W40 (--- GAL)

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

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

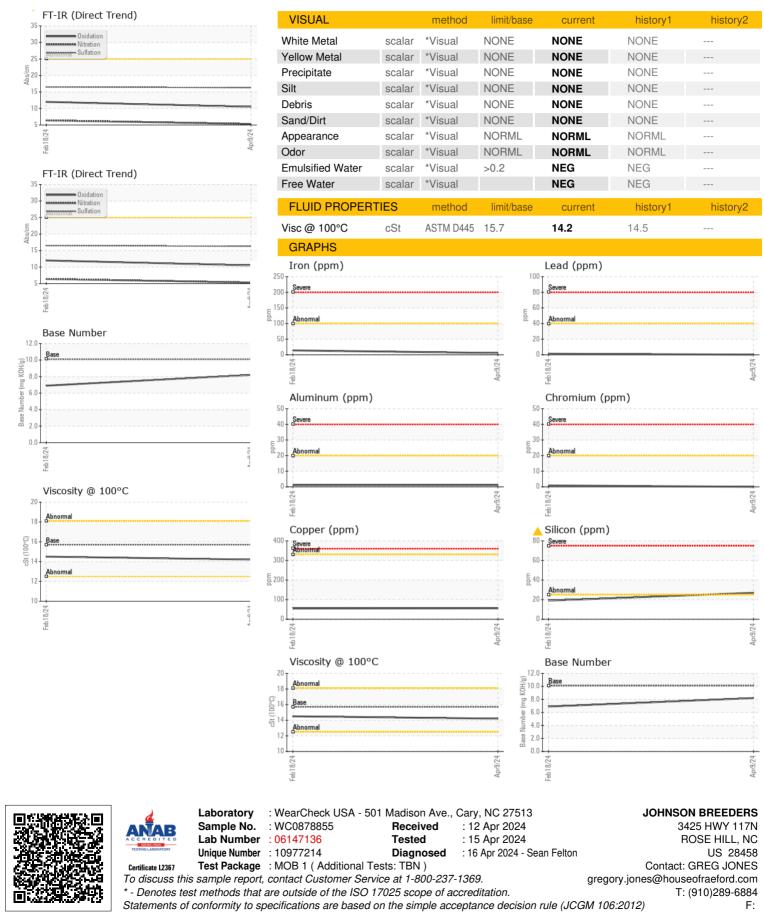
Fluid Condition

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 INFORMATIONmethodlimit/basecurrenthistory1history1Sample NumberClient InfoWC0878855WC0878916Sample DateClient Info09 Apr 202418 Feb 2024Machine AgemlsClient Info176132175549Oil AgemlsClient Info00	tory2
Sample Number Client Info WC0878855 WC0878916 Sample Date Client Info 09 Apr 2024 18 Feb 2024 Machine Age mls Client Info 176132 175549	
Sample Date Client Info 09 Apr 2024 18 Feb 2024 Machine Age mls Client Info 176132 175549	
Machine Age mls Client Info 176132 175549	
5	
Oil Changed Client Info Changed Changed	
Sample Status ABNORMAL NORMAL	
CONTAMINATION method limit/base current history1 his	tory2
Fuel WC Method >5 <1.0 <1.0	
Water WC Method >0.2 NEG	
Glycol WC Method NEG NEG	
WEAR METALS method limit/base current history1 his	tory2
Iron ppm ASTM D5185m >100 6 14	
Chromium ppm ASTM D5185m >20 0 <1	
Nickel ppm ASTM D5185m >4 0 <1	
Titanium ppm ASTM D5185m 0 <1	
Silver ppm ASTM D5185m >3 0 <1	
Aluminum ppm ASTM D5185m >20 1 1	
Lead ppm ASTM D5185m >40 <1 1	
Copper ppm ASTM D5185m >330 56 55	
Tin ppm ASTM D5185m >15 0 1	
Vanadium ppm ASTM D5185m 0 <1	
Cadmium ppm ASTM D5185m 0 <1	
ADDITIVES method limit/base current history1 his	tory2
Boron ppm ASTM D5185m 316 31 30	
Barium ppm ASTM D5185m 0.0 0	
Molybdenum ppm ASTM D5185m 1.2 22 25	
Molybdenum ppm ASTM D5185m 1.2 22 25	
Molybdenum ppm ASTM D5185m 1.2 22 25 Manganese ppm ASTM D5185m 1 1	
Molybdenum ppm ASTM D5185m 1.2 22 25 Manganese ppm ASTM D5185m <1	
Molybdenum ppm ASTM D5185m 1.2 22 25 Manganese ppm ASTM D5185m C <1	
Molybdenum ppm ASTM D5185m 1.2 22 25 Manganese ppm ASTM D5185m C <1	
Molybdenum ppm ASTM D5185m 1.2 22 25 Manganese ppm ASTM D5185m <1 1 Magnesium ppm ASTM D5185m 24 207 252 Calcium ppm ASTM D5185m 2292 2041 1721 Phosphorus ppm ASTM D5185m 1064 964 878 Zinc ppm ASTM D5185m 1160 1120 1020 Sulfur ppm ASTM D5185m 4996 4214 3705	tory2
Molybdenum ppm ASTM D5185m 1.2 22 25 Manganese ppm ASTM D5185m 24 207 252 Magnesium ppm ASTM D5185m 24 207 252 Calcium ppm ASTM D5185m 2292 2041 1721 Phosphorus ppm ASTM D5185m 1064 964 878 Zinc ppm ASTM D5185m 1160 1120 1020 Sulfur ppm ASTM D5185m 4996 4214 3705 Silicon ppm ASTM D5185m >25 27 19	tory2
Molybdenum ppm ASTM D5185m 1.2 22 25 Manganese ppm ASTM D5185m <1 1 Magnesium ppm ASTM D5185m 24 207 252 Calcium ppm ASTM D5185m 2292 2041 1721 Phosphorus ppm ASTM D5185m 1064 964 878 Zinc ppm ASTM D5185m 1160 1120 1020 Sulfur ppm ASTM D5185m 4996 4214 3705	tory2
Molybdenum ppm ASTM D5185m 1.2 22 25 Manganese ppm ASTM D5185m C <1 1 Magnesium ppm ASTM D5185m 24 207 252 Calcium ppm ASTM D5185m 2292 2041 1721 Phosphorus ppm ASTM D5185m 1064 964 878 Zinc ppm ASTM D5185m 1160 1120 1020 Sulfur ppm ASTM D5185m 4996 4214 3705 Silicon ppm ASTM D5185m >25 27 19	tory2
Molybdenum ppm ASTM D5185m 1.2 22 25 Manganese ppm ASTM D5185m 24 207 252 Magnesium ppm ASTM D5185m 24 207 252 Calcium ppm ASTM D5185m 2292 2041 1721 Phosphorus ppm ASTM D5185m 1064 964 878 Zinc ppm ASTM D5185m 1160 1120 1020 Sulfur ppm ASTM D5185m 4996 4214 3705 Solicon ppm ASTM D5185m >25 27 19 Sodium ppm ASTM D5185m 22 0 Potassium ppm ASTM D5185m >20 0 3	tory2
Molybdenum ppm ASTM D5185m 1.2 22 25 Manganese ppm ASTM D5185m <1 1 Magnesium ppm ASTM D5185m 24 207 252 Calcium ppm ASTM D5185m 2292 2041 1721 Phosphorus ppm ASTM D5185m 1064 964 878 Zinc ppm ASTM D5185m 1160 1120 1020 Sulfur ppm ASTM D5185m 4996 4214 3705 CONTAMINANTS method limit/base current history1 hist Silicon ppm ASTM D5185m >25 27 19 Sodium ppm ASTM D5185m >20 0 3 INFRA-RED method limit/base current history1 hist Soot % % *ASTM	
Molybdenum ppm ASTM D5185m 1.2 22 25 Manganese ppm ASTM D5185m 24 207 252 Magnesium ppm ASTM D5185m 24 207 252 Calcium ppm ASTM D5185m 2292 2041 1721 Phosphorus ppm ASTM D5185m 1064 964 878 Zinc ppm ASTM D5185m 1064 964 878 Sulfur ppm ASTM D5185m 1160 1120 1020 Sulfur ppm ASTM D5185m 4996 4214 3705 CONTAMINANTS method limit/base current history1 hist Silicon ppm ASTM D5185m >25 27 19 Potassium ppm ASTM D5185m >20 0 3 INFRA-RED method limit/bas	
Molybdenum ppm ASTM D5185m 1.2 22 25 Manganese ppm ASTM D5185m 24 207 252 Magnesium ppm ASTM D5185m 24 207 252 Calcium ppm ASTM D5185m 2292 2041 1721 Phosphorus ppm ASTM D5185m 1064 964 878 Zinc ppm ASTM D5185m 1064 964 878 Sulfur ppm ASTM D5185m 1160 1120 1020 Sulfur ppm ASTM D5185m 4996 4214 3705 CONTAMINANTS method limit/base current history1 hist Silicon ppm ASTM D5185m >20 0 3 Sodium ppm ASTM D5185m >20 0 3 INFRA-RED method limit/base current history1 hist Soot % % 3	
Molybdenum ppm ASTM D5185m 1.2 22 25 Manganese ppm ASTM D5185m <1 1 Magnesium ppm ASTM D5185m 24 207 252 Calcium ppm ASTM D5185m 2292 2041 1721 Phosphorus ppm ASTM D5185m 1064 964 878 Zinc ppm ASTM D5185m 1064 964 878 Sulfur ppm ASTM D5185m 1160 1120 1020 Sulfur ppm ASTM D5185m 4996 4214 3705 Sodium ppm ASTM D5185m >25 27 19 Sodium ppm ASTM D5185m >20 0 3 Potassium ppm ASTM D7844 >3 0.1 0.3 Nitration Abs/cm	
Molybdenum ppm ASTM D5185m 1.2 22 25 Manganese ppm ASTM D5185m <1 1 Magnesium ppm ASTM D5185m 24 207 252 Calcium ppm ASTM D5185m 2292 2041 1721 Phosphorus ppm ASTM D5185m 1064 964 878 Zinc ppm ASTM D5185m 1064 964 878 Sulfur ppm ASTM D5185m 1160 1120 1020 Sulfur ppm ASTM D5185m 4996 4214 3705 Sodium ppm ASTM D5185m >25 27 19 Potassium ppm ASTM D5185m >20 0 3 INFRA-RED method limit/base current history1 hist Soot % % *ASTM D7844	tory2



OIL ANALYSIS REPORT



Contact/Location: GREG JONES - JOHROSNC