

**OIL ANALYSIS REPORT** 

## Machine Id **HYSTER HYSTER Gasoline Engine** TRC MOLY PRO-SPEC IV XP 15W40 (6 QTS)

## RECOMMENDATION

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform a viscosity test.

WEAR

All component wear rates are normal.

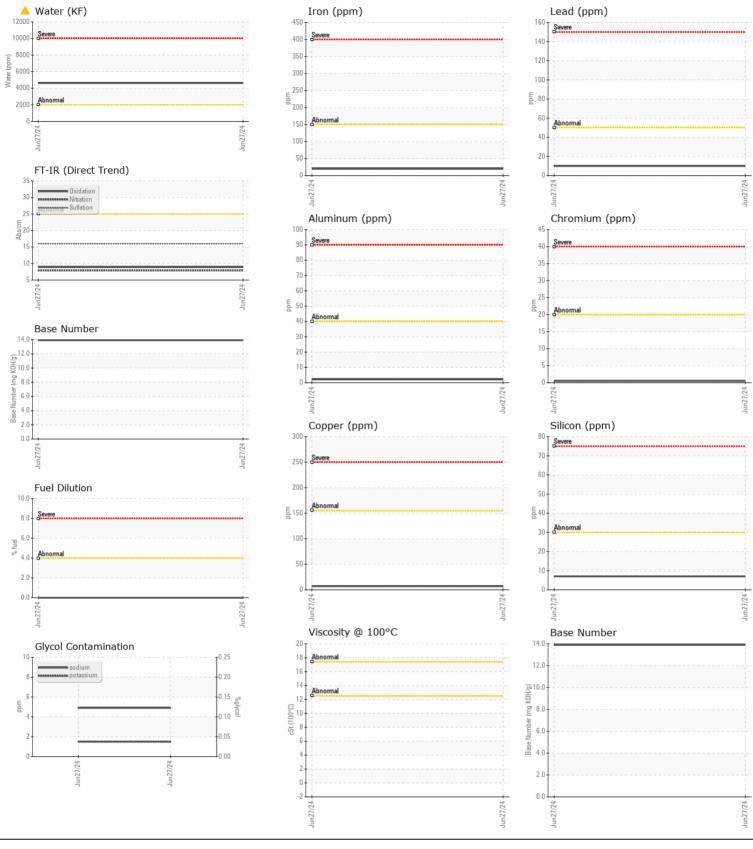
## **CONTAMINATION**

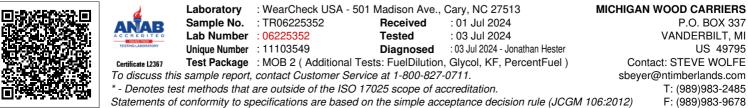
There is a moderate concentration of water present in the oil.

## **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.

Test UOM Method Limit/Abn Current History1	History2	
Sample Number Client Info TR06225352		
Sample Date Client Info 27 Jun 2024		
Machine Age hrs Client Info 0		
Oil Age hrs Client Info 105		
Filter Age hrs Client Info 105		
Oil Changed Client Info Changed		
Filter Changed Client Info Changed		
Sample Status ABNORMAL		
Iron ppm ASTM D5185m >150 20		
Chromium         ppm         ASTM D5185m         >20         <1		
Nickel ppm ASTM D5185m >5 0		
Titanium ppm ASTM D5185m 0		
Silver ppm ASTM D5185m >2 0		
Aluminum ppm ASTM D5185m >40 2		
Lead ppm ASTM D5185m >50 10		
Copper         ppm         ASTM D5185m         >155         7		
Tin ppm ASTM D5185m >10 0		
Vanadium ppm ASTM D5185m 0		
White Metal scalar *Visual NONE NONE		
Yellow Metal scalar *Visual NONE NONE		
Silicon ppm ASTM D5185m >30 7	7	
ppm Water         ppm         ASTM D6304         >2000         4620            Glycol         %         *ASTM D2982         NEG		
Soot % % *ASTM D7844 0.1		
Nitration         Abs/cm         *ASTM D7044         0.1		
Sulfation         Abs/.1mm         *ASTM D7024         >20         7.9            Sulfation         Abs/.1mm         *ASTM D7415         >30         16.0		
Silt scalar Visual NONE NONE		
Debris scalar *Visual NONE NONE		
Sand/Dirt scalar Visual NONE NONE		
Appearance scalar *Visual NORML NORML		
Odor scalar Visual NORML NORML		
Emulsified Water scalar *Visual >0.2		
Sodium ppm ASTM D5185m >400 5		
Boron ppm ASTM D5185m 17		
Barium ppm ASTM D5185m <1		
Molybdenum ppm ASTM D5185m 81		
Manganese ppm ASTM D5185m 0		
Magnesium ppm ASTM D5185m 96		
Calcium ppm ASTM D5185m 3537		
Phosphorus ppm ASTM D5185m 932		
Zinc ppm ASTM D5185m 1065		
Sulfur ppm ASTM D5185m 5794		
Sumur         pprin         ASTM D5165m         5794            Oxidation         Abs/.1mm         *ASTM D7414         >25         8.9		





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