Case Study: Component Wear due to Contamination

Model: Off Highway Truck

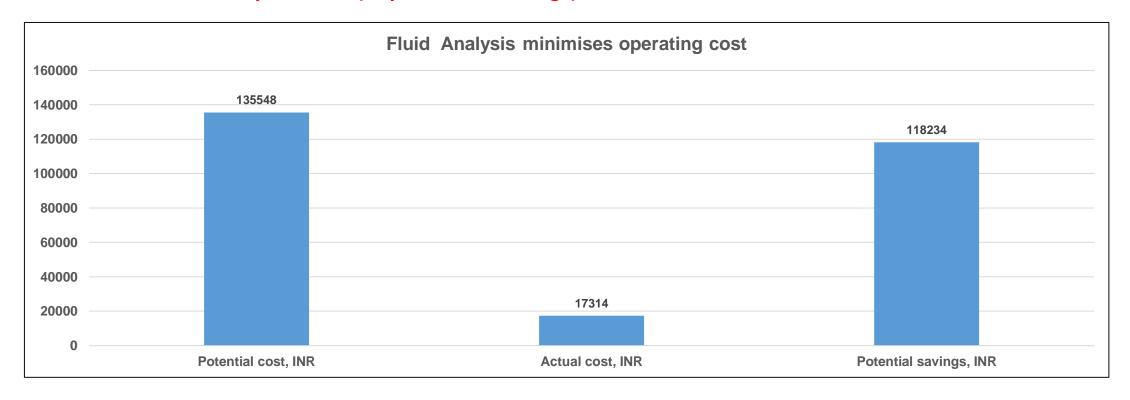
Compartment: Wheel Bearing





Increase in Aluminium and Silicon are indicating dirt contamination in the system. Fine particles caused by abrasive wear found in magnetic plug. Abrasive wear is the predominant wear mode causing wear in roller race, gears and housing. Machine was inspected and found dirt contamination due to leakage in seals. Components found okay and fit for reuse. Seals and O rings are replaced to resolve this issue. Recheck result found okay.

- Parts replacement costs(Seals & O-rings): Rs. 17314
- Condition failure prevented(Cup & Cone bearings): Rs.135548



Gainwell SOS Lab has documented many such case studies to show the efficacy of Condition based maintenance of in-service Lubricants.