



# Dresser 140M Haul Truck



**A construction company discovered a problem with a Dresser 140M Haul truck during a routine oil analysis.**

This asset was very important to production and operations could not afford significant downtime. Before there was further damage or it became necessary to stop the equipment without further information, ALS was hired to perform oil analysis for predictive maintenance. Possible risks without predictive maintenance:

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Catastrophic failure

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Loss of production

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Reduced resale value

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## Analysis

ALS has decades of experience delivering equipment reliability services that keep businesses on the right path. ALS Tribology provides valuable information to save you our customer time and money. The oil analysis presented:

- High concentrations of sodium (Na) and potassium (K)
- Copper (Cu) and lead (Pb) levels were elevated
- Additional tests showed that glycol was present in the lubricant

## Diagnosis

These findings indicated contamination that caused engine wear. ALS contacted the customer immediately upon completion of the testing to alert them to what was discovered during the analysis.

## Solution

After following ALS' recommendations, the customer discovered that the root cause of the problem was a coolant leak. The oil coolers were bad and leaking coolant into the engine.

The truck was pulled from service and the customer was able to fix this issue before further damage occurred.

## Result

In this case, by using ALS oil analysis and diagnosis as a proactive maintenance tool, the customer prevented a catastrophic failure and avoided having to change engines.

# Avoided replacing engine

EST. COST SAVINGS

Based on the maintenance/downtime cost to mitigate the causal factor vs the cost of not performing oil analysis and potential additional damage to the truck's engine.