



TECHENOMICS  
INTERNATIONAL

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Press Release

## Stop Contamination Before It Starts: The Real Cost of Dirty Oil (and How to Fix It)

Contaminated oil is quietly destroying millions of dollars in equipment every single day - but too often, it goes unnoticed until it's too late.

At Techenomics, we see it all the time: water ingress, dust contamination, unexpected metal particles... They don't just reduce oil life - they shave years off your engines, gearboxes, final drives and hydraulics.

Here's the reality: up to 75% of lubrication-related failures can be traced back to contamination.

That's downtime, repair bills, and lost productivity that could have been avoided with a smarter approach.



CHRIS ADSETT  
CEO OF TECHENOMICS

## 5 STEPS TO STOP CONTAMINATION IN ITS TRACKS



[www.techenomics.net](http://www.techenomics.net)

- 1 ✓ **SAMPLE REGULARLY**  
Catch early signs of wear, water, dust.
- 2 ✓ **TREND THE DATA**  
Don't just test – track results over time.
- 3 ✓ **IMPROVE SEALS & FILTERS**  
Upgrade to keep dirt and water out.
- 4 ✓ **USE THE RIGHT ADDITIVES**  
Add Liquid Tungsten to cut friction and iron wear.
- 5 ✓ **TAKE ACTION EARLY**  
Plan maintenance before failures hit.

## The hidden price of contamination

Every hour of unplanned downtime costs. For some mining operations, it's thousands per hour - for others, it's entire production targets at risk.

What starts as a few extra ppm of iron, silicon or water can end with catastrophic component failure.

## What is your oil trying to tell you?

Oil analysis is more than a tick-box test - it's your early warning system.

Some of the early signs we watch for:

- Rising iron levels - a clear sign of wear in engines, gearboxes or final drives.
- Water or coolant ingress - corrosion and accelerated wear.
- Dust and dirt - the silent killers of seals and lubricated parts.

## How to fix it - and save big

Proactive oil analysis and condition monitoring help you catch these problems before they become disasters.

But that's just step one. Here's what else you can do:

- Upgrade sealing and filtration systems - keep the dirt out before it gets in.
- Use proven additives like Liquid Tungsten to reduce friction and wear - we've seen up to 70% less iron wear in real-world mining applications.
- Schedule regular sampling - trend the data over time so you know what's changing.

## A real example

On a North Asian mine site, our team identified unusual iron wear in final drives. By combining oil analysis with Liquid Tungsten, we helped the client reduce iron generation by 70% - saving kilograms of wear and extending component life significantly.

## Ready to protect your biggest investments?

Don't wait for a costly failure to show you the true cost of dirty oil.

Your oil is telling you a story - we help you read it, understand it, and act on it.

**Learn more: [Liquid Tungsten and Grease in Broadacre Farming](#)**

#ConditionMonitoring #OilAnalysis #Lubrication #ContaminationControl #Mining #HeavyEquipment  
#Techenomics #LiquidTungsten



## SOLVE YOUR LUBRICATION PROBLEMS

We will test your oil with an appropriate WS2 additive to provide you with the relevant information to reduce your fuel consumption and lower your engine wear! [Click here for more...](#)

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