

FUEL ADULTERATION

THE BLEND THAT BREAKS
BUSINESS



Invisible Fraud. Visible Damage

**Injector
Failure**

**Increased
Downtime**

**Component
Failure**

Fuel adulteration is the deliberate blending of an unauthorised substance into diesel to increase volume and pocket the price difference. Illuminating Paraffin is a common adulterant used because it is chemically similar to diesel. This illegal activity de-frauds the South African Government of approximately R3.6 Billion per annum. Fuel related damages are excluded from warranties leaving the burden of repair on the equipment owner.

WHY TEST YOUR DIESEL?

- Detect paraffin contamination before it reaches critical components;
- Protect injectors, pumps and engines from from abnormal wear;
- Reduce downtime, fuel consumption issues and emission faults;
- Support supplier control, warranty and quality disputes;
- Screen fuel routinely across the fleets, farms, mines and generators.





CLOSE THE LOOPHOLE

A TEST DESIGNED FOR THE FRAUD YOU CANT SEE



Direct Detection. Practical Screening

1

SAMPLE

Take a representative sample

2

TEST

Identify IP directly, not just through markers

3

ACT

Use results to control risk before failures occur

Adulterated diesel is virtually indistinguishable from standard fuel. While conventional tests - such as density, viscosity, and flash point may reveal inconsistencies, sophisticated syndicates now use additives to disguise these changes. This allows compromised fuel to pass specification tests while still causing severe engine damage. SARS-mandated chemical markers in paraffin initially provided a safeguard, but these were eventually removed by illicit chemical processes. More advanced marking solutions exist, but their high cost limits widespread adoption. Unmarked imported paraffin continues to bypass regulatory controls entirely.

WearCheck's enhanced fuel testing service helps identify paraffin in diesel directly - Independent of chemical markers, origin or masking additives. It makes proactive screening practical for fleets, farms, mines, generators and fuel distributors.

Don't wait for injector failure.
Test the fuel before the damage starts.

50 years

ENQUIRE ABOUT OUR FUEL TESTING

Visit www.wearcheck.co.za or support@wearcheck.co.za.

ds140 May 2026



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