

# MAGNAFLUX

## LT - 101

### OIL LEAK TESTER

#### General Description

LT-101 is a concentrated solvent soluble dye containing Solvent Red 175 in a high flash hydrotreated naphthenic solvent system.

The product is a dark colored liquid and has been found to be completely miscible in most petroleum or organic based products.

The solvent is used in the product as a viscosity depressant and standardizing agent.



#### Typical uses

LT-101 can be used for detecting oil leaks in gasoline and diesel engines.

This application requires addition of the fluorescent dye to the engine oil and subsequent examination of the engine using a high intensity black light.

Leaks are easily detected with this system by the intense white – yellow fluorescence of the dye.

This fluorescence is readily distinguished from the natural blue fluorescence found in some oils.

#### Typical Properties (not a specification)

Property	LT - 101
Form	Red liquid
Flash point	>85 °C
Density	0.85 g/cm <sup>3</sup>
Initial boiling point	175 °C

Like all Magnaflux materials LT – 101 is closely controlled to provide unique batch to batch consistency and uniformity to assure optimum process control and inspection reliability.

#### Benefits

- ✓ Usable over a wide range of concentrations
- ✓ Distinguishable white – yellow fluorescence
- ✓ Cost effective

## Application recommendations

Introduction of the dye in to the engine can be carried out in one of two ways. Engine oil and dye may be premixed and added to the engine prior to the engine test or dye may be added to the engine after the oil fill by adding the dye directly in to the engine sump.

Leakage is monitored during and after the "hot-cell" test or after the dynamometer test by examining the engine with a high intensity black light (100-125 Wemitting at 365 nm). Leakage is readily detected by the presence of a white – yellow fluorescence caused by the presence of the dye.

## Recommended dosage

The following recommendations are provided as a starting point for typical applications. Actual dosage will depend on desired color strength as well as background color of the base material.

Hydraulic & Transmission Fluids	500 to 2000 ppm
Car Engine Oils	500 ppm
Diesel Engine Oils	700 to 2000 ppm

Clean up: The dye is easily removed from metal surfaces with chlorinated solvents, paraffin oils or by dry wiping.

## Availability

LT-101 is available as follows:

- 1 litre containers, part number F02017

## Health and Safety

- Safety Data Sheets for this product are available on request from your Magnaflux distributor or via the Magnaflux website ([www.in.magnaflux.com](http://www.in.magnaflux.com)).
- Read the relevant Safety Data Sheets before use.

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