



ACROSS

- 1 A fluid with a constant viscosity at a given temperature regardless of the rate of shear.
- 5 Porous materials that primarily retain contaminants within a tortuous path, performing the actual process of filtration.
- 10 Coked material remaining after an oil has been exposed to high temperatures under controlled conditions.
- 11 A form of extremely localized attack characterized by holes in the metal.
- 12 Caused by a deterioration of critical wetted surfaces and materials or by a breakdown of the fluid itself.
- 13 A procedure that involves the collection of a volume of fluid from lubricated or hydraulic machinery for the purpose of performing analysis.
- 14 The differential gas pressure at which the first stream of gas bubbles are emitted from a wetted filter element under standard test conditions.
- 15 A process of reclaiming used lubricant oils and restoring them to a condition similar to that of virgin stocks by filtration, clay adsorption or more elaborate methods.

- 16 The total of the extraneous particles that are introduced in the process of obtaining, storing, moving, transferring and analyzing a fluid sample.

DOWN

- 2 The energy per unit area present at the boundary of two immiscible liquids.
- 3 The diameter of the largest hard spherical particle that will pass through a filter under specified test conditions.
- 4 Oxidized ferrous particles that are very old or have been recently produced by conditions of inadequate lubrication.
- 6 A valve that modulates output as a function of an input command.
- 7 Works on the basis that atoms of metallic and other particular elements emit light at characteristic wavelengths when they are excited in a flame, arc or spark.
- 8 Ability of additives and certain synthetic lubricants to resist chemical decomposition in the presence of water.
- 9 Occurs when hard particles that have embedded themselves into a soft surface plough grooves into the opposing harder surface.

Crossword Puzzler Solutions:

