



ACROSS

- 4** The distinction between paraffinic, naphthenic and aromatic molecules.
- 7** A publication containing health and safety information on a hazardous product (including petroleum).
- 8** An engine that uses the energy of expanding gases passing through a multi-stage turbine to create rotating power.
- 11** The routine activity of analyzing lubricant properties and suspended contaminants for the purpose of monitoring and reporting timely, meaningful and accurate information on lubricant and machine condition.
- 12** The ability of a non-water-soluble fluid to form an emulsion with water.
- 13** A complex wear process where a machine surface is peeled away or otherwise removed by forces of another surface acting on it in a sliding motion.
- 14** Normal particles between 20 and 40 microns found in gearbox and rolling element bearing oil samples observed by analytical ferrography.

DOWN

- 1** The part of a shaft or axle that rotates or angularly oscillates in or against a bearing or about which a bearing rotates or angularly oscillates.
- 2** A sophisticated microscopic system involving a microscope, a television camera, a dedicated computer and a viewing monitor similar to a television screen.
- 3** Low-boiling volatile materials in a petroleum fraction.
- 5** A filter medium primarily intended to hold soluble and insoluble contaminants on its surface by molecular adhesion.
- 6** The amount of acid, expressed in terms of the equivalent number of milligrams of potassium hydroxide, required to neutralize all basic constituents present in 1 gram of sample.
- 9** A chemical compound made up of nitrogen and oxygen.
- 10** An oil specially suited for use as either the specific gravity or the API gravity of a liquid.

Crossword Puzzler Solutions:

