



## ACROSS

- 3** The portions of a petroleum distillate fraction that are the highest boiling.
- 7** A device that converts low-pressure fluid power into higher pressure fluid power.
- 8** Any substance interposed between two surfaces in relative motion for the purpose of reducing the friction and/or wear between them.
- 9** A unit of work, energy or heat.
- 10** The amount of contaminants a filter will hold before an excessive pressure drop is caused.
- 11** A connector that has a smaller line size at one end than the other.
- 12** The assimilation of one material into another.
- 14** In rolling-element bearings, the elastic deformation of the bearing (flattening) as it rolls, under load, in the bearing race.

## DOWN

- 1** A unit of liquid volume of petroleum oils equal to 42 U.S. gallons.
- 2** A device that works to join together systems or mechanisms in order to prevent leakage, contain pressure or exclude contamination.
- 4** Any chemical substance derived from crude oil or its products, or from natural gas.
- 5** An additive that promotes oil-water separation in lubricants that are exposed to water or steam.
- 6** Bearing damage that occurs when a small relative motion or vibration is accompanied by some loading in the presence of oxygen.
- 13** An instrument or device for measuring, indicating or comparing a physical characteristic.

Crossword Puzzler Solutions:

The crossword puzzle solutions are as follows:

- Across:**
  - HEAVY ENDS
  - LUBRICANT
  - CAPACITY
  - ABSORPTION
  - ELASTO HYDRODYNAMIC LUBRICATION
- Down:**
  - BARRELS
  - MULTIFILERS
  - FALSIBILITERS
  - JOULE
  - INTENSIFIER
  - Gauges