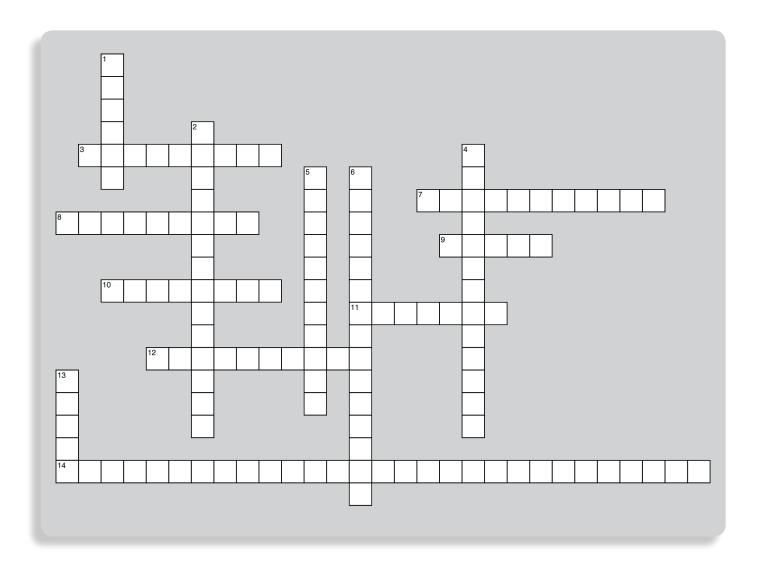
## CROSSWORD PUZZLER



## **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.



