



The Lubri-Sensor makes it possible to determine when oil is still usable, permitting longer intervals between oil changes. Provides advance warning of potential mechanical failure by detecting the presence of metal particles.

GET MAXIMUM USE, MILEAGE OUT OF LUBRICANTS

Oil Analyzer Helps Prevent Breakdowns

"I believe it will become a very valuable tool on every farm," predicts Herman Lee, Borup, Minn., farmer and one of the first farmers in the U.S. to use a do-it-yourself analyzer to determine when to change oil in tractors, trucks, combines and other equipment.

"It helps prevent serious engine problems," says Lee, who uses an analyzer manufactured by Northern Instruments Corp., Lino Lakes, Minn. The company's Lubri-Sensor oil quality analyzer helps prevent expensive engine overhauls by detecting premature oil failure, explains Lee, who also is a stockholder in the company.

Using only a few drops of oil taken off the dipstick, the analyzer: 1. Provides advance warning of potential lubrication failure by detecting excessive oxidation buildup or fuel dilution; 2. Provides advance warning of potential mechanical failure by detecting the presence of metal particles; 3. Cuts "down time" by suggesting action that postpones the need for costly overhauls, and 4. Helps get maximum use or mileage out of oil.

All this information is available in seconds, without sending samples elsewhere for analysis. The unit gives

top performance even with new synthetic oils, explains the manufacturer.

To test an oil sample, you first place in the sensor cup three or four drops of oil of the type to be tested, and adjust the meter needle to zero. Next, you clean the sensor cavity and place in it three or four drops of the used oil. The meter needle will deviate in a direction (increase or decrease) of the change in the electrochemical property. Questionable readings will fall into one of three groups:

Group One: Indicates accumulations of soot, sludge, dirt or oxidation.

Group two: Indication of water, anti-freeze, acids or metal particles.

Group three: Indicates presence of gasoline. This reading, however slight, calls for immediate action to identify the source of the dilution.

The battery-operated Lubri-Sensor is 4 in. high, 9½ in. long and 5 in. wide. Weighs about 2 lbs. and sells for \$390.

For more details, contact: FARM SHOW Followup, Northern Instruments Corp., 6680 N. Highway 49, Lino Lakes, Minn. 55014 (ph. 612 784-1250).

FARM SHOW

New Products for Your Farm Shop

**YOU CAN STEP ON IT, DROP IT OR
EVEN USE IT UNDER WATER**

"Unbreakable" Light for Your Farm Shop

You can drop it, step on it or even use it under water. Its glare-free fluorescent tube provides a shadowless work area and it lasts 10 to 12 times longer and draws 80% less electricity than ordinary light bulbs.

It's the new KH portable fluorescent extension lamp introduced by Lightguard, headquartered in Bloomington, Minn. In testing it, FARM SHOW put it to the usual tests. We stepped on it, dropped it onto a concrete floor from a height of 10 ft., and plunged a lighted bulb into a tank of water. The amazing Lightguard passed every test with flying colors.

It features a fluorescent tube completely sealed in a patented, shock-absorbing plastic and rubber housing. Unlike a hot bulb, the light will not break if it comes in contact with cold surfaces, cold liquids, ice or snow. Welding sparks can strike it without harm. It resists the vibration effects of machine mounting. Tight seals permit the light to be used completely submerged in water. "It is the only light known that can be disassembled (to replace the tube) and reassembled without tools or sealants and still retain its shock-resistant and waterproof qualities," the manufacturer points out. Life of the light tube is said to be 10 to 12 times that of incandescent bulbs. It draws approximately 80% less electric power than equivalent incandescent bulbs, ac-



Fluorescent extension lamps operating on 110 V electricity are available in 8 to 40 watt models. Battery lamps also available.

cording to the manufacturer.

An 8 watt extension lamp, equivalent to a 50 watt bulb, sells for \$31.88; a 15 watt lamp, equivalent to a 75 watt bulb, sells for \$41, including the cord. Larger lamps, and battery-powered lamps, are also available.

For more details, contact: FARM SHOW Followup, Lightguard, 2905 West Old Shakopee Road, Bloomington, Minn. 55431 (ph 612 884-7026).