TECHNI/TIPS

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REDUCING COST OF LUBRICATION AND INCREASING RELIABILITY WITH HIGH PERFORMANCE LUBRICANTS

We can all benefit from the experience of operators whose judgement and decisions have led them to the use of lubricating greases rather than oils, and to their application of these specialized lubricating greases.

To convince an operator of the wisdom of such a choice, many instances can be cited. Using quality lubricating greases should be a conscientious, preventive maintenance (PM) program. This can benefit all equipment and operations. There can be significant financial benefits as well.

There is no need to define "quality', since over the years many suppliers of lubricants have advertised "quality' products. We should consider, for example, the trend over the past two decades toward the use of multipurpose lubricating greases.

First, such greases were primarily for automotive and agricultural equipment use. Subsequently, they have generally been recognized by industrial users. The better greases provide reliability and al-though they require a premium price, they provide advantages that more than offset their cost. Noteworthy among these are products from **LUBRICATION ENGINEERS,® INC**. When using ordinary greases, several types would be necessary. LE's special heavy-duty, multipurpose greases mean reduced inventories. This reduces the risk of misapplication, takes less storage space and generally lowers the cost of lubrication.

There are numerous other benefits from using premium multipurpose greases in more applications rather than fluids. One example is low and wide range temperature operations of electric motors equipped with ball bearings.

Equipment designers now more often consider the use of premium, multipurpose grease rather than oil circulating systems for electric motors. When using such grease, no special housing design is necessary for widely ranging temperatures and no heating is necessary. There is no need for an auxiliary lubricating system to permit operation at low temperatures. Substantial savings can be realized by conversion from constant level bottle oilers, or an oil housing, to grease lubrication.

Greases are akin to certain other products in that those having the lowest cost, in the long run, are not necessarily the least expensive. In fact, a grease purchased at a relatively low price more often than not will prove to be, over an extended period of use, exceedingly costly.

Modern techniques of lubrication and use of premium grade multipurpose lubricants in managing, conscientious PM programs have proven invaluable in aiding energy conservation. By using high performance greases, less grease is used, lubrication is needed less frequently, parts last longer and expensive repairs, labor and production downtimes are reduced. Such sophisticated products allow the CONSERVATION of ENERGY through the reduction of friction and wear, along with established programs of realistic service intervals and standardization of lubricants.

ENERGY CONSERVATION - or energy saving, translates to the operator as PROFIT. Profit improving, energy saving lubricants enhance the efficiency of today's modern equipment. This equipment is being built in ever decreasing sizes, but in ever increasing sophistication through the ability of today's more sophisticated lubricants to meet the increasing demands of such equipment.

Energy conservation through the reduction of friction and wear is not only being understood by, but is being requested by industrial equipment operators. It is also being demanded by fleet, construction and other mobile equipment operators. They have learned about the reduction of costs and increasing reliability with high performance, high technology lubricants.

Owners and maintenance directors of fleets and other heavy mobile equipment operations have become aware of the need to upgrade their maintenance facilities and programs, which includes improving their lubrication practices. Improved servicing and PM checks are being incorporated in overall ENERGY CONSERVING lubrication programs under the direction of qualified people.

Conserving energy through reduction of friction and wear in engines, transmissions, differentials, final drives and other power train components is the same as the desire for such conservation by maintenance people in heavy industrial operations. Periodic design changes in power train mechanisms and engines have brought about reduction in component weights and increased efficiency demands, plus longer drain intervals which make more sophisticated heavy-duty premium lubricants mandatory.

A key factor in lubrication is the selection of lubricants. Of prime consideration in lubricant selection is the equipment mix, manufacturers' recommendations and selection of a supplier-such as LUBRICATION ENGINEERS® INC. -whose highly sophisticated, multipurpose, heavy-duty lubricants will serve the requirements of most all equipment. In so doing, the stocking of a large number of different lubricants can be eliminated.

Lubrication Engineers,® Inc., who is recognized as *Leaders in Lubricants, is* in the forefront of research and development of highly sophisticated, multipurpose, heavy-duty lubricants which serve the requirements of an increasing number of applications in industrial, fleet and heavy equipment operations.

Usage can be limited to a few high-quality products. This will substantially reduce costs of handling, storage facilities, maintenance, contamination and misapplication.

LUBRICATION ENGINEERS' lubricants are formulated using the finest paraffinic base stocks and additives which produce lubricants that perform like no ordinary lubricants can possibly equal. They provide protection far in excess of their cost. When LE lubricants are used at every lubrication point in a piece of equipment, the total energy requirement will be less than if other ordinary lubricants are used.

Lubrication Engineers has long recognized and documented the economics of energy conservation in the use of premium, multipurpose lubricants in scheduled maintenance. Skilled and informed maintenance people, applying the highest quality lubricants, is the answer to today's rapidly increasing demand to conserve energy, control costs and maintain profits.

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