

# LUBE

# TECHNI-GRAM



**FROM:**

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## **SWEPCO's 708 INDUSTRIAL/TURBINE OIL CONSOLIDATES MANY INDUSTRIAL PRODUCTS**

A common lubrication problem for many industrial and manufacturing facilities occurs from stocking different types of lubricants for different applications in the production process. In addition to creating higher inventory expense, a multitude of lubricants also increases the possibility of costly mistakes should someone grab the wrong lubricant for the wrong application. In about 90% of plants surveyed, it is generally found that a minimum of four to five products could be consolidated through the use of SWEPCO 708 Industrial/Turbine Oil.

SWEPCO 708 Industrial/Turbine Oil consolidates the following applications into one unique, high-performance lubricant:

- |                                 |  |
|---------------------------------|--|
| *R & O Hydraulic Oil            | *Ring Oiled Motors and Airline Lubricant |
| *Industrial Turbines            | *Vacuum Pump Oil                         |
| *Way Lubricant                  | *Boiler Feed Pump                        |
| *Industrial Gear Box Lubricant  | *Loom Bearing Oil                        |
| *Central Lubrication System Oil | *Cooling Tower Oil                       |

Because of its superior high-viscosity index, solvent refined, hydro-treated, pure paraffin base stock, SWEPCO 708 Industrial/Turbine Oil has the excellent chemical and thermal stability that allows it to tackle each of these applications normally associated with higher temperatures and long service intervals. Without the ability to resist high temperatures, ordinary oils will begin to thicken up, thus causing varnish and carbon deposits which can severely impede operation performance.

For the purpose of this article, I will focus on the most predominant industrial applications:

### **INDUSTRIAL GEAR LUBRICANT**

As an industrial gearbox lubricant, SWEPCO 708's performance is unsurpassed. Basically, industrial gearboxes are normally thought of as smaller or less severe operation-type boxes that do not require extreme pressure (EP) additives such as those found in API GL-5 or MT-1 gear lubricants. In some cases, the manufacturer does not want extreme pressure lubricants because the operating conditions are not overly severe and they wish to keep the lubricant recommendation as versatile and simple as possible. In other cases, the chemical composition of extreme pressure additives (primarily sulfur/phosphorous) could have a negative reaction with the "yellow metal" components within the gearbox. (\*Note: SWEPCO products containing E.P. additives will not have an adverse effect on "yellow metals" as they are based on non-aggressive chemistry and exceed API MT-1 requirements.)

While these boxes are generally smaller, they do operate at very high speeds and can generate a tremendous amount of heat. Once again, SWEPCO 708's chemical and thermal stability becomes even more important, as does additional additives such as anti-oxidant...anti-rust...and anti-foam additives.

### **CENTRALIZED LUBE SYSTEMS**



*... to keep it running*

Central lubrication systems pump oil to various locations in order to provide “bath lubrication” for enclosed bearings. Since the bearings do not receive a fresh supply of grease each day to help purge out any water or other contaminants entrapped within the bearing area, the oil providing the lubrication and protection from metal-to-metal contact must be highly stable...both thermally and chemically. Bottling and food processing plants are an excellent example of one of the most common areas incorporating centralized lube systems. Since health regulations normally require that the systems be steamed or chemically cleaned each day, the chemical stability of SWEPCO 708 Industrial/Turbine Oil, as well as the high emulsification resistance and anti-rust protection, are a tremendous plus. Without this added protection, entire operations can be shut down to replace bearings that have been lost to wear, rust, or sludging and varnishing due to heat or chemical reaction.

## **HYDRAULIC SYSTEMS**

SWEPCO’s 708 Industrial/Turbine Oil provides superior performance in those hydraulic systems calling for an R & O only (No anti-wear additive) hydraulic oil. The R & O designation stands for rust and oxidation inhibited oils, but SWEPCO 708 also has the added fortification to greatly resist foaming and water emulsification. Since it is extremely important that a hydraulic oil not compress while in service, these added benefits assure smooth, even transmission of power, totally free of any type of surging or improper operation.

## **MAJOR MARKETS**

The following is a list of a few of the many operations where SWEPCO 708 Industrial/Turbine Oil is currently providing the added protection for the above-mentioned applications:

Power plants/co-generation plants	Food processing
Refineries	Chemical companies
Hospitals	Amusement parks
Wastewater treatment plants	Bottling/brewing facilities
Colleges/Universities	River authorities
Dairy processing facilities	Corrugated packaging
Steel manufacturing	Laundries
Newspapers/printing	Mining operations
Machine shops	Farming
Hotels	Plastic manufacturing
Feed mills	Semi-conductor operation
Textile plants	

## **IN SUMMARY**

In addition to these highlighted applications, SWEPCO 708 Industrial/Turbine Oil serves as an excellent lubricant for general airline oilers, ring-oiled motors, and many types of transfer pumps. For trouble-free service in a wide variety of industrial and turbine applications, SWEPCO 708 Industrial/Turbine Oil provides unparalleled performance while consolidating inventory.