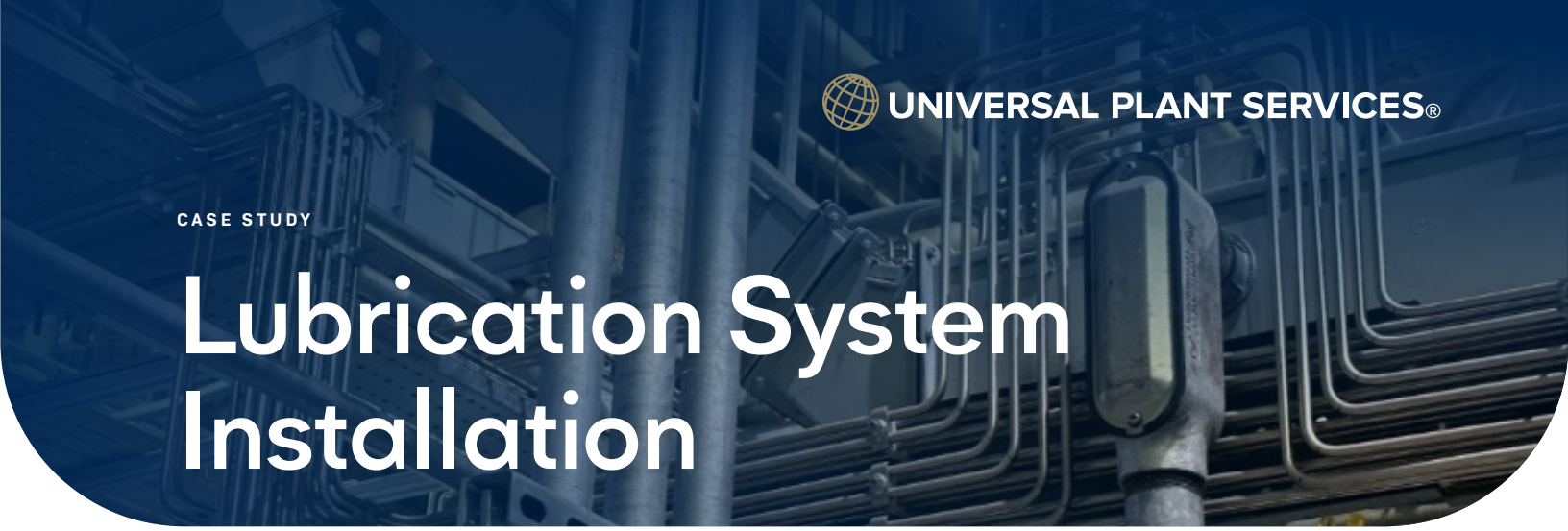

UNIVERSAL PLANT SERVICES®

CASE STUDY

Lubrication System Installation

The customer required the installation of a new oil lubrication and pneumatic air system, including new supply tubing for oil and air, on a Dresser TCVC-20M Engine/Compressor situated within a major natural gas underground storage facility.

THE PROBLEM

- The current system was several years old, inefficient and was mounted in an area that was hard to access for routine maintenance.
- The current system was using an excessive amount of lubricant to support the operation of the engine.
- System tubing runs blocked many of the maintenance points on the engine – no drawings existed for the tubing runs.
- Tubing had oil and air leaks.
- The engine was undergoing a zero-hour overhaul, and the system would need to be removed during the project.

OBJECTIVES

- To have a system that worked more efficiently than what was currently installed.
- To have a system that would reduce lubricant consumption.
- To have the system mounted in an area that was easier access for routine maintenance.
- Re-route the oil and air tubing to allow access to all maintenance points on the engine.
- Procure and install the system during the overhaul project.

OUR SOLUTION

Install a new system that meets the client's overall objectives during the zero–hour overhaul project.

CASE STUDY

Lubrication System Installation

METHODOLOGY

UPS worked with a key supplier and the client to determine the following:

- The best system to use to meet the objectives and operating metrics
- Engineering and design consulting to install the system and tubing runs correctly to provide access to key points on the engine.

UPS was performing the zero–hour overhaul and could install the system during the project to eliminate installation delays.

OUTCOME

The new system and tubing materials provided enhanced flow, eliminated leaks, improved system and maintenance point access, and reduced operating interruptions.

The system is more flexible during different operating conditions, including idle, which results in much greater reliability and overall efficiency.

Lubrication Tubing

Lubrication System