**SHELL TELLUS S2 M 46* HELPS OMNI PLASTICS TO EXTEND ITS OIL-DRAIN INTERVAL BY 100%**

**TOTAL REPORTED ANNUAL CUSTOMER SAVING**

**US$60,000**

**COMPANY:** Omni Plastics (Suzhou) Co. Ltd  
**COUNTRY:** China  
**APPLICATION:** Hydraulic systems  
**SAVING:** US$60,000 total reported annual customer saving  
**KEY EDGE:** Shell Tellus S2 M 46*

Omni Plastics (Suzhou) Co. Ltd in China specialises in injection moulding and assembly for the medical, automotive and consumer goods markets, and operates more than 100 injection-moulding machines. Omni Plastics was using a hydraulic fluid in its machines that had an oil-drain interval of one and a half years. However, the company experienced frequent filter blockages during production, and three vane pumps had been damaged, which caused unplanned down time.

Shell Lubricants recommended changing to the high-performance hydraulic oil Shell Tellus S2 M 46*, and using the Shell LubeAnalyst oil and equipment monitoring service and the Shell LubeCoach lubrication training programme.

By changing to Shell Tellus S2 M 46*, Omni Plastics has extended the oil-drain interval of its hydraulic systems to three years. This has enabled the company to make savings in lubricant consumption and labour and maintenance costs. Since changing lubricants and taking advantage of Shell’s services, Omni Plastics has experienced no problems with blocked filters or damage to vane pumps, and has consequently enjoyed improved production efficiency. It is also able to improve its lubricant management through Shell LubeAnalyst and Shell LubeCoach. The company reports it is now enjoying annual cost savings totalling US$60,000.

*Shell Tellus S2 M 46 is the new name for the Shell lubricant formerly known as Shell Tellus 46.*
Shell Tellus S2 M fluids are high-performance hydraulic fluids that use Shell’s unique patented technology to provide outstanding protection and performance in most manufacturing and many mobile equipment operations. They resist breakdown under heat or mechanical stress and help prevent damaging deposit formation that can decrease the efficiency of your hydraulic power system.

**Applications**
Shell Tellus S2 M oils are specifically designed for
- industrial hydraulic systems
- mobile hydraulic-fluid power-transmission systems
- marine hydraulic systems.

**Performance features and benefits**
- Long fluid life. Shell Tellus S2 M fluids help extend equipment maintenance intervals by resisting thermal and chemical breakdown. This minimises sludge formation and provides excellent performance. Shell Tellus S2 M fluids also have good stability in the presence of moisture, which promotes long fluid life and reduces the risk of corrosion and rusting, particularly in moist or humid environments.
- Outstanding wear protection. Proven zinc-based antiwear additives are incorporated to be effective throughout the range of operating conditions, including low-load and severe-duty high-load conditions.

**Specifications and approvals**
Shell Tellus S2 M meets the requirements of a wide range of industry bodies and equipment manufacturers, including Denison Hydraulics (HFO, HF-1, HF-2), Cincinnati Machine P-68 (ISO 32), P-70 (ISO 46), P69 (ISO 68), Eaton Vickers M2950 S and 1286 S, Bosch Rexroth RE 9022001/09 09, ISO 11158 (HV fluids), AINOR NFE 4B:603, ASTM D15S8-03 (HV fluids), DIN 51524 Part 2 HLP type, Swedish Standard SS 15 54 34 AM.

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**Challenges**
Injection-moulding company Omni Plastics (Suzhou) Co. Ltd was experiencing a relatively short oil-drain interval of one and a half years for its hydraulic systems. The company also had frequent blocked filters and had found damage to three vane pumps.

**Solution**
Shell technical experts recommended changing to Shell Tellus S2 M 46* high-performance hydraulic oil, and using the Shell LubeAnalyst oil and equipment monitoring service and the Shell LubeCoach lubrication training programme.

**Outcome**
By changing to Shell Tellus S2 M 46*, Omni Plastics has
- extended the oil-drain interval of its hydraulic systems to three years
- achieved savings in lubricant consumption and labour and maintenance costs
- prevented problems with blocked filters and damage to vane pumps.

**Value**
By using Shell Tellus S2 M 46* and the Shell LubeAnalyst and Shell LubeCoach services, Omni Plastics is now enjoying reported annual cost savings totalling US$60,000.

The savings indicated are specific to the calculation date and mentioned site. These calculations may vary from site to site depending on application, operating conditions, current products being used, condition of the equipment and maintenance practices.

"Shell Lubricants" refers to the various Shell companies engaged in the lubricants business.