

Solving issues related to "oil"

Product & Service Introduction

Oil purification solutions that meet strict conservation standards

 **TRIBO SYSTEM**

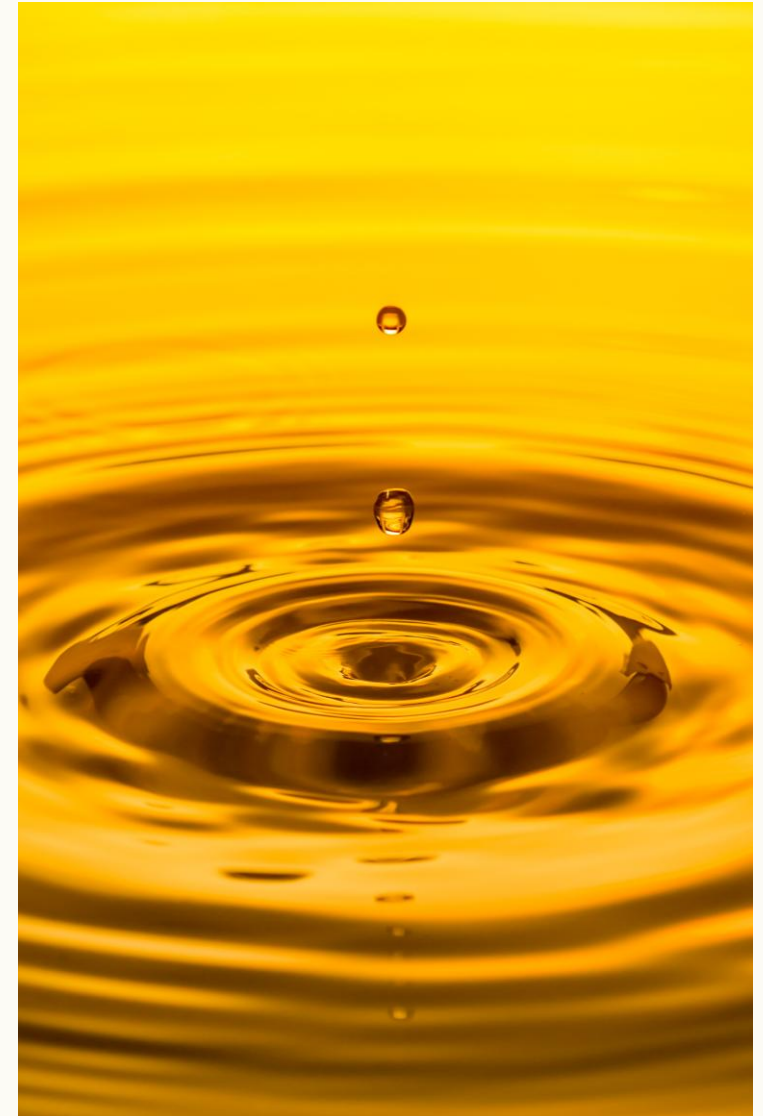
<https://www.tribosystem.co.jp/>

Preventing lubrication issues, which account for more than 30% of machinery and equipment issues, through proper management of "oil"

Tribo Systems specializes in oil purification and oil management technologies.

We provide proprietary purification systems and comprehensive maintenance services.

Our solutions enhance equipment reliability and improve cost efficiency.



At thermal and nuclear power plants across Japan, Over 250 recruitment cases

Power plant



Ironworks



Other

Machinery and Equipment



Tribo Systems' oil purification systems are widely used in thermal and nuclear power plants, steel mills, and other critical industrial facilities across Japan.

They are trusted in environments where high reliability and stringent safety standards are essential

- Hydraulic system response delays and loss of control
- Valve sticking caused by oxidation products and fine contaminants
- Pipeline blockage due to solid deposits and sludge
- Chain-reaction failures caused by wear particles
- Bearing and gear seizure due to loss of lubricating oil film

**In-Flight Lubrication Failures Can Be
Life-Threatening**

Higher Maintenance and Repair Costs

**Tribo Systems' Oil Purification Systems Help Prevent and
Mitigate These Problems**

Target Industries and Organizations

Aircraft Manufacturers



e.g., Airbus
Dassault Aviation

Airlines



e.g., Air force

Aviation Service Providers



Maintenance
Simulation &
Training

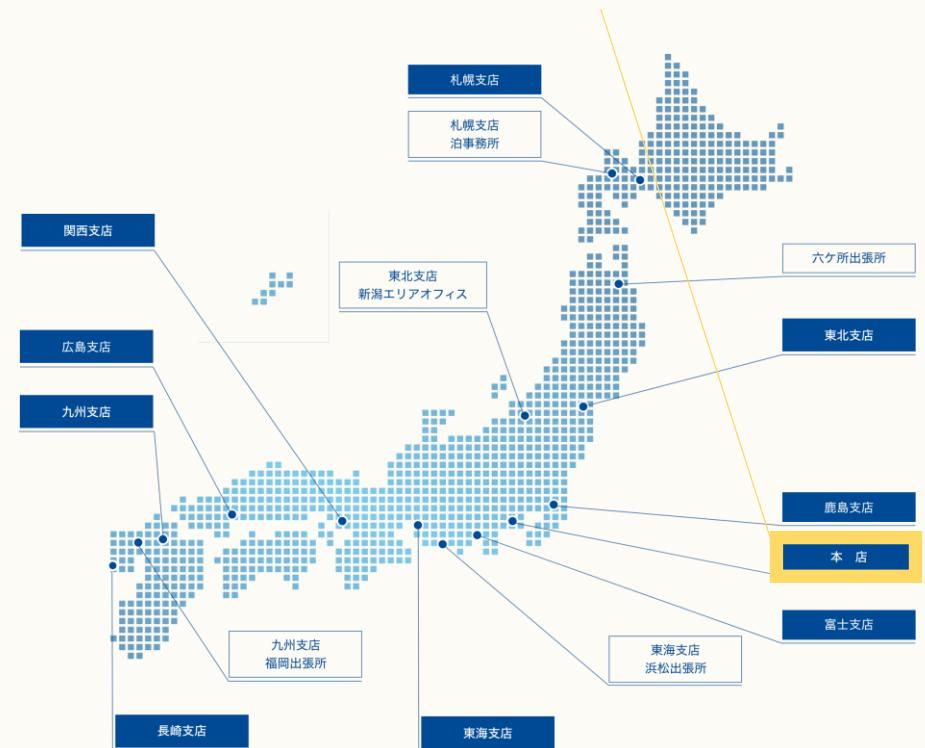
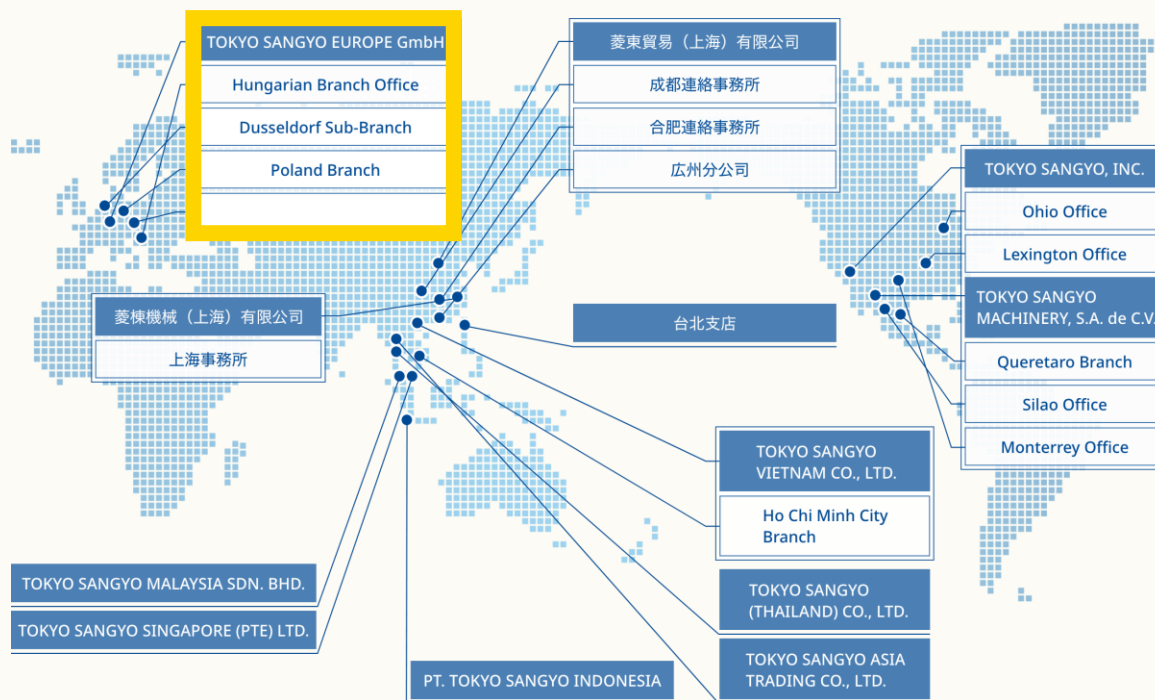
Other Industries



Defense
Heavy Industry
Marine Industries

Tribo Systems' technology is provided through a trading partner experienced in the European market.

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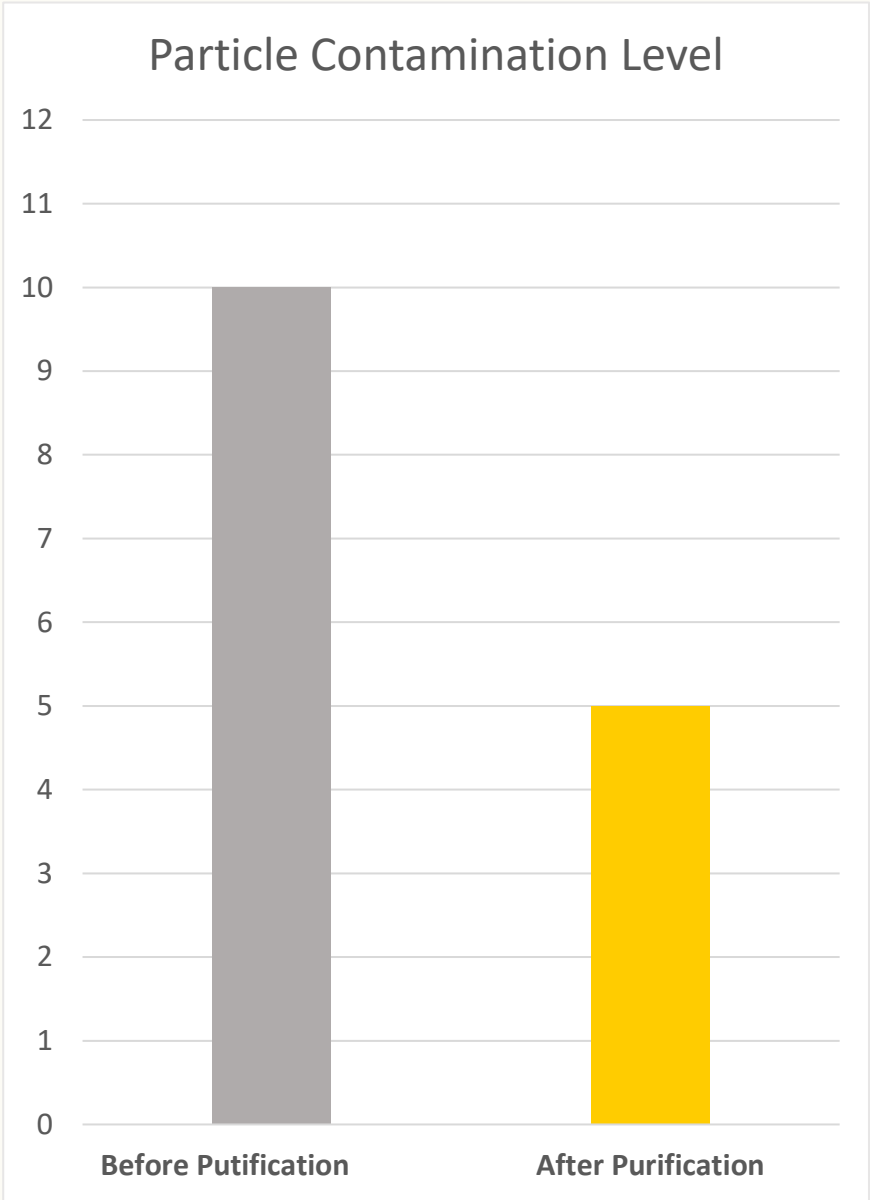
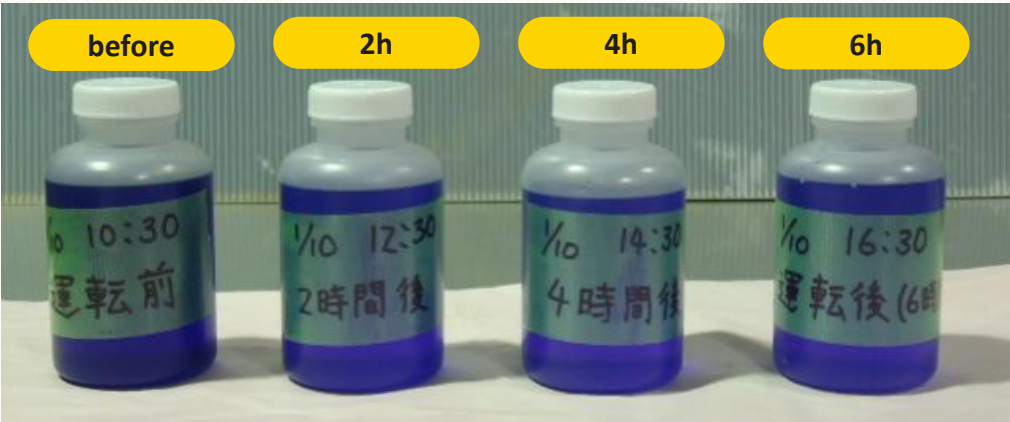


Case Study: Purification Test of Skydrol LD-4

A purification test was conducted on Skydrol LD-4, a phosphate ester hydraulic fluid used in aircraft, using the PEC Oil Purification System.

After six hours of continuous operation, the contamination level improved from NAS Class 10 to NAS Class 5.

Equipment Used	PEC Oil Purification System
Oil Type	Skydrol LD-4
Purification Time	6 Hours
Configuration	• 10 µm Filter Cartridge × 1 • Acid Removal Cartridge × 1 • Water Removal Cartridge × 1



Purification Performance Exceeding Cleanliness Requirements for Control Systems

Acid Value

less than

0.1

mgKOH/g

Moisture

Less than

500

ppm

Particle Contamination Level

NAS Class

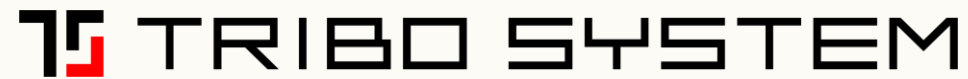
5 or Better

ISO scale

16/14/11

or Better

This helps prevent unexpected equipment failures and significantly reduce lubrication-related problems.



We welcome your questions

We look forward to discussing your specific needs after this presentation.