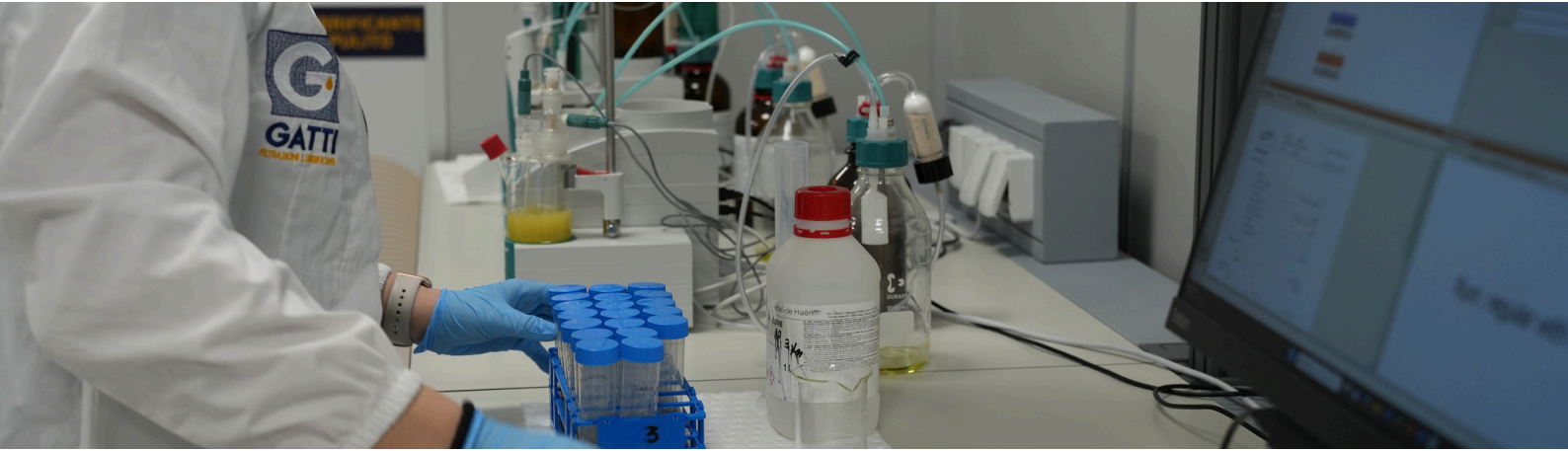# GATTI®
FILTRAZIONI LUBRIFICANTI

OUR PREDICTIVE ANALYSIS LABORATORY, ONE OF THE MOST TECHNOLOGICALLY ADVANCED IN ITALY

Gatti Filtrazioni Lubrificanti was founded in 2009 as a company specialized in lubricant filtration services, by Fabio Gatti, CEO & Founder. In 2014, it began the internal design and production of machinery for oil filtration, expanding further until its current setup with two locations in Bedizzole: one for production and central operations, and another in Mazzano, housing the laboratory and training center. Particularly, in 2021, there were 6 patent applications, two of which have already been granted (TFLM 700 filtration systems and the flow bench), and in 2022, the predictive analysis laboratory was installed, one of the most technologically advanced in Italy.

The company offers an innovative predictive analysis service, which allows for constant monitoring of your oil's conditions. Gatti's technicians collect fluid samples from your company, which are then analyzed in the laboratory. We handle various types of oil, including hydraulic oils, lubricants, gear oils, turbine oils, glycol water, cutting oils, and metalworking fluids.

Predictive analyses enable precise knowledge of the condition of the oils in use, thus accurately assessing the overall 'health' of the system. The client company can rely on the analysis service according to the formula it deems most suitable, choosing between periodic tribological analyses scheduled every 3, 6, or 12 months, pre or post filtration service, or opting for the box monitoring system. The latter, through the application of sensors managed by Artificial Intelligence, allows for 24/7 fluid state monitoring. If an anomaly in the parameters is detected, an alert will be sent to the central operations, which will promptly intervene to resolve it.

2009 Establishment of the first company specializing in lubricant filtration services.

2014 Initiating the internal design and production of machinery for oil filtration.

2016 Transfer to the current headquarters, owned by the company.

2019 Expansion of the technical offices and laboratory.

2021 Request for 6 patents, of which 2 have already been acquired.

2022 New operational unit where the most technologically advanced predictive analysis laboratory in Italy has been installed.

Through periodic oil analyses, your company can manage oil monitoring and thus preserve its optimal productivity. This involves a thorough examination that carefully assesses the lubricant within the machinery, allowing for the precise understanding of the 'health' status of the oils used. This type of analysis evaluates the chemical and physical properties of the lubricant and, if present, contaminants, in order to understand the operational conditions of the oil and consequently, of the entire system.

In our platform, there is also a reserved area where you can automatically receive a signal from the system one week before the analysis deadline, to welcome a visit from a Gatti technician for oil sample collection or prepare and send them independently. (The oil can be collected using dedicated containers, vacuum-sealed with barcoded labels, and the data forwarded via the app to the laboratory) a simple and immediate procedure. Furthermore, your sample is constantly tracked; therefore, you can know at any time when it was received, if it is being processed, and when it is ready for the report. If necessary, our operations center will schedule an intervention promptly. Finally, the analyses can be consulted or downloaded at any time.

Among the various parameters identified, some of the most significant are contamination class, presence of water, additives, viscosity, and appearance. The oil is analyzed, contaminants present are identified, and methods for their elimination are determined. Through proper analysis and filtration, the life of the oil can quintuple, and similarly, the machinery components themselves. All of this ensures a reduction in waste and environmental impact.

In 2023, Gatti Filtrazioni Lubrificanti laboratory analyzed 1317 oil samples. Healthy oil is synonymous with the health of your machinery. It is estimated that 70% of failures in hydraulic circuits of machinery, from small to large enterprises, stem from improper lubricant management, with complicated and extremely costly consequences for production chains and the environment.

Predictive analyses allow us to accurately determine the condition of oils in use and, thus, precisely evaluate the overall "health status" of the plant. With a simple lubricant sampling, the most suitable interventions to solve the problem can be planned well in advance, avoiding lengthy and costly unexpected machine downtime, breakdowns, and failures.