

## ABB supply to PT Pertamina Lubricants the biggest Lube Oil Blending Plant of Indonesia



**Started up in December 2015, the new Lube Oil Blending Plant (LOBP) supplied by Cellier Activity of ABB France to PT Pertamina Lubricants has the biggest blending and filling capacities of all of Indonesia's LOBPs.**

### **A LOBP with a capacity of 270 million liters per year**

The new LOBP - called Pelumas Plant - is situated in Tanjung Priok, sub-district and harbour of North Jakarta. Awarded by PT Krakatau Engineering, the contract for the supply of a new LOBP for PT Pertamina Lubricants in Jakarta is one of the biggest contracts for Cellier Activity. With an annual capacity of 270 million liters, this plant is the biggest Lube Oil Blending Plant in Indonesia.

Responsible for the engineering studies, procurement, installation, commissioning and after-sales services, Cellier Activity was the technology provider for the core blending and transfer technologies as well as the control system to ensure a fully automated management of operations. As process integrator, Cellier Activity also supplied the filling lines for bottles, drums, pails as well as bulk loading arms for the truck loading station and jetty.

### **Flexibility and quick product availability**

The Pelumas plant includes a full scope of blending systems with an Automatic Batch Blender (ABB) of 30 tons, a Simultaneous Metering Blending system (SMB) with a blending rate of 40 cubic meters per hour and an In-Line Blending system (ILB) with a blending rate of 85 cubic meters per hour.

Automatic Batch Blenders are known for their capacity to process an unlimited number of formula, whereas In-Line Blenders have the highest production rate, continuously delivering on-spec finished products. Consequently, the new LOBP is able to produce both specialty products and fast movers. In addition to state-of-the-art blending equipment, a Drum Decanting System (DDS), a piggable manifold and pigging lines enhance the process flexibility. The pigging systems enable the transfer from blending process equipment to destination tanks and to filling lines, with main advantages such as bi-directional pigging and contamination-free products.

The filling process is performed using 8 different filling lines for drums, pails, small packs from 0.8 to 10 liters, offering a filling capacity of 220,000 cubic meters per year. An additional bulk loading capacity of 50,000 cubic meters per year is available for marine and automotive products.

The plant is fully automated (raw material receipt, storage, dosing, blending and transfer operations to filling) and is controlled by the manufacturing executing system Lubcel™ to guarantee product quality as well as process reliability, flexibility and safety. Lubcel™ system is integrated with the ERP system so as to meet just-in-time production requirements.

### **Successful start-up**

The start-up of the Pelumas LOBP and performance tests were carried out successfully in December 2015, to the complete satisfaction of the PT Pertamina Lubricants with respect





On cover page, the blending area with ABB and SMB systems. This page clockwise, the SMB, the DDS, the filling area and the piggable manifold.

to the performance levels achieved, the site services supplied and the professionalism shown during the start-up phase, Thanks to ABB's advanced and efficient solutions, the marketing objectives of PT Pertamina Lubricants to have a highly flexible blending tool and ensure a quick product availability so as to enter the ASEAN market are reached.

#### PT Pertamina Lubricants: a reference for ABB

In November 2008, Cellier Activity had already successfully started PT Pertamina Lubricants' Gresik LOBP in Surabaya where capacity reached 135,000 kiloliters of industrial lubricants per year. It was the first time the technological combination of both In-Line Blending and Automatic Batch Blending technologies was used in Southeast Asia so as to provide the utmost flexibility for the plant in terms of finished product portfolio and production capacity.

#### About PT Pertamina Lubricants

PT Pertamina Lubricants, a subsidiary of PT Pertamina (Persero), the domestic leader that produces, distributes and markets automotive and industrial lubricants and base oil in Indonesia and international markets. PT Pertamina Lubricants operates 3 production units in Gresik, Cilacap and Jakarta as well as Thailand with a total capacity of more than 535,000 KL per year. PT Pertamina Lubricants is recognized in the international communities and car manufacturer and is the official technical partner of Automobile Lamborghini. Pertamina Fastron Platinum Synthetic Oil became the official lubricants used in all Lamborghini motorsport event handled by Lamborghini Squadra Corse team and marketed in 129 outlets.

#### About Cellier Activity of ABB France

For more than sixty years, Cellier, as an Activity of the Process Automation Division of ABB France, has been a specialised process engineering company supplying formulation units worldwide. Cellier Activity designs, engineers, assembles and starts up complete automated units for the lubricant and grease, paint and coatings, specialty chemical and paper industries.

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