

# CASE STUDY



<b>PROJECT</b>	<b>WASH BAY WASTEWATER TREATMENT FOR INTERNATIONAL MANUFACTURER</b>
<b>PRODUCT</b>	Dissolved Air Flotation & Oil Water Separator
<b>INDUSTRY</b>	Manufacturing
<b>LOCATION</b>	Carole Park, Queensland

## BACKGROUND

A large international company that **designs, manufactures, and distributes engines, filtration, and power generation products**, required a wastewater treatment solution to treat effluent from the wash bay at their reconditioning facility to a standard complying with Queensland Urban Utilities trade waste guidelines.

MAK Water was asked to undertake a comprehensive bench testing program and subsequent validation of the proposed wastewater treatment process. The client then engaged MAK Water to design, manufacture, install and commission a plant to treat up to 36,000 litres a day of wash bay water contaminated with oil & grease.

## SOLUTION

The design incorporated an oil water separator (OWS), Flocculation and dissolved air flotation (DAF) processes to remove solids, oil and grease contaminants from the effluent.

- Oil Water Separator pre-treatment, to decrease the load on the DAF during heavy oil contamination events
- Bench testing to confirm compliance with trade waste discharge compliance
- Removal of existing equipment, supply and onsite installation of interconnecting pipework and electrical
- Onsite commissioning and training of local operators, with an ongoing service and maintenance agreement
- ClearAccess™ Remote Monitoring and Control
- Upgrade of existing sludge press to reduce sludge pump out costs



*MAK Water OWS, Flocculation and DAF system in workshop*

## RESULTS AND BENEFITS

- **Turnkey Solution.** Design and construction of wastewater treatment system
- **Compliance.** The wastewater treatment system complies with local council sewer discharge requirements.
- **Automation.** Fully automated process with minimal operator involvement



*Clearmake™ a MAK Water company Oil Water Separator (OWS)*