



# METAL INDUSTRY CAR ASSEMBLER

## Application Successful Experience

An industrial complex of a large vehicle assembler located in Brazil, including a hub with 15 different car parts producers, generate a big amount of wastewater per day.

## CURRENT TREATMENT

- The current treatment process require to use alum salt, polymers and lime;
- High cost in the wastewater treatment using alum salts, polymers and a huge quantity of lime;
- Generate a huge amount of contaminated sludge;
- Harmful sludge;
- Sludge with low degradability;
- High cost to disposal this harmful sludge;
- High level of oil, grease and COD;
- High energy consumption in the biological treatment;
- High ecotoxicity and toxicity in the current treatment process;
- The treated wastewater still content high levels of alum salts.



## REDUCES TREATMENT COST

- Acquapol is a metal free vegetable organic coagulant/flocculant with the special characteristics to remove metals from the wastewater;
- Does not require to use this huge amount of lime, consequently will reduce tremendously the sludge quantity;
- Don't need to use the alkalizer agent during the treatment process;
- Reduce the polymer quantity;
- Reduce the chemical handling;
- High performance of the Acquapol in the wastewater treatment process;
- Very low cost of the treatment process compared with the current treatment;
- Reduce the COD;
- Reuse of treated water;
- Non-harmful sludge;
- Does not disposal any alum salts in the surrounding ecosystem, protecting the wildlife and the ecosystem;
- This "green technology" will highlighting the company image regarding the attention and care for the environment, positioning the company above the competition;

	Dosage mg/L	PAM mg/L	Lime - pH 11	COD (3,600 mg/L in flow)	Sludge
<b>Alum Salt Treatment</b>	450 mg/L	5		<b>2,000 mg/L</b>	
<b>ACQUAPOL Treatment</b>	200 mg/L	2		<b>1,050 mg/L</b>	
<b>Reduction</b>	<b>55 %</b>	<b>60 %</b>	<b>100 %</b>	<b>71 %</b>	

