



**EVALED**

**Mechanical & surface  
treatment industry**

**Alkaline washing water | U.S.A.**

# Brakes production

FOR INTERNAL USE ONLY

## Customer

The Client manufactures active safety technologies, energy management solutions, air brake charging, control systems and components for medium and heavy commercial vehicles throughout North America.

## Customer's needs

The Customer aims to treat waste water from alkaline washing waters of metallic parts from rust inhibitor treatment.



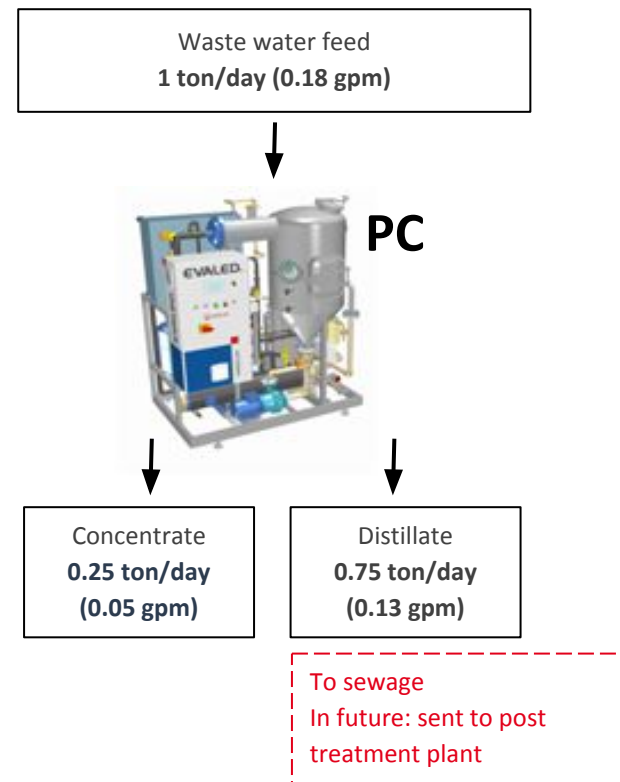
# The Plant

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## Analysis and Plant Process Diagram

Parameters	u.m.	Waste in	Distillate out	Concentrate out
Dry matter	%	1.5	0.01	6
pH		10.4	9.5	12
Conductivity	$\mu\text{S/cm}$	14100	<350	-
Density	gr/ml	1.024	-	1.45
COD	ppm	7110	<200	-
Phosphate	ppm	816	<5	-
Surfactants	ppm	235	<5	-

Technology Type	Material	Footprint ( $\text{m}^2$ )
PC F 1.4 AA	AISI 316	1.62



# Results

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Water reused: 100%  
Concentration factor: 4 times

## The solution achieved:

- distillation yield: 75%;
- disposal cost reduction.

