

Common Cleaning Problems

Turillach	noting G	Tranklashooting Guide to Common Cit	Imon Cleaning	9	
Honnican	3	SONDIE CALICE(S)	REMOVAL	PREVENTION	FYI
FILM/DEPOSIT	IDENTIFICATION	j		ent	Alkaline reagents contained in the
Fats	Heavy deposit produces soft yellow film - Light buildup dulls surface and causes water to bead - "Greasy" appearance	Improper pre-rinse (cold water) temperature - Weak alkalinity detergent solution (pH below 10.5) - 6 Low initial or distal water temperature - Rinsing only; not temperature ach milking - Using washing after each milking - Using		at proper concentration: 2.10-5 (70°C) at 10.5 and temperature above 120°F (70°C) at the end of the cycle - Check for proper wash the end of the cycle - Check for proper wash volume, velocity, contact time and drainage - Ensure that the proper water temperature is obtained during the pre-wash rinse [95-110°F (35-43°C)]	detergent will combine with the milk fat, breaking it down to form soap. This process is called saponifcation.
Proteins	Heavy buildup produces yellow varnish-like appearance or slimny gelatinous film like applesauce - Light buildup will give a blue or rainbow cast to stainless steel. Causes water to bead	gent or llorine log only; ng - rproper rature -	Mix chlorinated alkaline detergent at twice the recommended dosage and add liquid or powdered chlorine at 1 oz. for each 5 gallons of wash solution - For manual brush surfaces, prepare a paste of 4 oz. of chlorinated alkaline detergent + 1 oz. liquid chlorine - Pour on surface and allow to stand for 2 minutes - Brush thoroughly - Rinse - Repeat as	Analyze water and prescribe proper detergents at proper concentration - Ensure proper pH, solution temperature, volume, proper pH, solution temperature, volume, velocity, contact time and drainage - Check for proper rotation and/or storage of chlorinated proper rotation and/or storage of chlorinated alkaline detergent - Ensure that the pre-wash rinse is performed with the correct water temperature [95 (35°C) – 110°F (43°C)]	Chlorine in a chlorinated alkaline detergent "peptizes" or breaks down protein and converts it to a more soluble form that can be carried out through the wash system.
Hardness Minerals	Chalky – white to gray water spots and film and "Bluish" cast to stainless steel	Use of detergent with inadequate sequestering capacity to "tie up" minerals during washing - Not acid rinsing after each milking - Not employing alternate acid wash	Mix acid clearer at leconimient dosage in 140°F (60°C) water - Circulate for a minimum of 10 minutes - Repeat as necessary	softener to remove hardness minerals - Use detergent high in sequestering capacity - Use acidification rinse after each milking - Ensure acid rinsing in temperatures below 120°F (49°C)	leading cause of increased supply bills. More detergent is needed to remove buildup.
(Calcium/Magnesium)			At a poid planar at three times	Analyze water - Recommend water softener	Sequestrants in
Milkstone	Heavy buildup produces hard white or yellow film	Compounded soil of minerals and milk soils usually caused by excessive water hardness or inadequate sequestering activity of detergent - Not using acidification	Mix acid cleaner at three three per commended dosage in 140°F recommended dosage in 140°F (60°C) water - Circulate 10 minutes - Follow with chlorinated alkaline detergent wash - Repeat acid wash to be three (35.43°C) water	to remove hardness - Use acid rinse after to remove hardness - Use acid wash as substitute for each milking - Use acid wash as substitute for chlorinated detergent periodically	and "tie-up" minerals and carry them out of the pipeline before they can redeposit.
		rinse after each milking	In cases of severe staining, use iron	Analyze water - recommend water softener	1 ppm of Iron is equal to 70 ppm of water
Iron	Reddish-brown to almost black stain on equipment	Iron in water supply precipitating due to oxidation to ferric iron - Use of liquid chlorine as sanitizer causes oxidation and precipitation of iron oxidation and precipitation of iron to concentration to compensate for	-	and/or fron filter debending on the water supply. Use daily acid rinse after each milking	hardness or 4 gpg and should be accounted for when analyzing the hardness of the water.
		iron in water supply	Cilculate of the film/deposit.		

^{**}Be sure all recommended acid rinses reach a pH of less than 3.5 in order to be fully effective in removal of the film/deposit.

