

LUBRICATION SPECIALTIES CORPORATION
Home of Green Velvet Steam Cylinder Oil

FIVE RULES FOR GOOD CYLINDER LUBRICATION

- 1) *Water carry over, priming and allowing boiler scale and impurities to enter the engine will ruin any cylinder lubricant! Maintain good feedwater condition, run the water level low enough to prevent carry over and utilize steam separators on long steam lines. Get dry steam to your engine!*
- 2) *Oil feed lines should connect to a quill or other type of oil atomizer. Do not allow oil to just dribble into the steam line ahead of the throttle! Proper atomization of the cylinder lubricant so it coats all the moving parts completely is the key to good lubrication with less lubricant.*
- 3) *Choose the proper grade of the best oil you can find! Always look for a compounded oil that is correctly compounded for your steam pressure and temperature! Of course, we think Green Velvet Steam Cylinder Oil is the best! Look on the website to review our application guidelines. We have a cylinder oil for every condition. Typically you should always use the lightest viscosity oil that will lubricate the cylinders and valves satisfactorily.*
- 4) *Feed the proper amount of oil whenever the engine is running! The proper amount of lubrication is being fed when the piston rods show a light “sheen” and you can draw a easily seen “smudge” on the rod with your finger! Hydrostatic lubricators must be watched carefully so you are sure they are feeding the correct amount. These lubricators have a bad habit of quitting without warning. Green Velvet Steam Cylinder Oil is consistent and has the proper “body” so it feeds well in hydrostatic lubricators and won’t gum them up with deposits. Mechanical lubricators are less trouble, but still must be watched to make sure they are feeding too.*
- 5) *Maintain your equipment in good condition. Dub off your piston rings so they have a slight chamfer. Rings wear sharp corners and worn rings tend to scrape cylinder lubricant off the cylinder walls. Don’t let your rings blow by because this tends to scour cylinder lubricant off the walls too. When replacing parts be careful with material selection. Some metals are not compatible with each other and they will “gall” in service regardless of how good the cylinder lubricant is.*

Enjoy your steam machinery, learn about this ancient technology and have fun.
Remember. If it has a piston pushed by steam it needs Green Velvet!

LUBRICATION SPECIALTIES CORPORATION
Home of Green Velvet Pin, Bearing & Journal Oil

FIVE RULES FOR GOOD OPEN BEARING LUBRICATION

- 1) *Maintain the proper alignment and clearances on your bearings! Poorly aligned bearings will heat and wear no matter how good the lubricant.*
- 2) *Keep dirt and grit away from your bearings. Wash the whole machine down and clean the open bearing surfaces. Use a lubricant that will wash grit away from the bearings and will not suspend it in the lubricant*
- 3) *Choose the proper grade of the best oil you can find! Of course, we think Green Velvet Pin, Bearing & Journal Oil is the best! Open bearings that do not use re-circulated oil should not use just any oil. They should use a straight mineral oil that is specially blended to stay on the bearing, not drip off. The oil should not contain any additives that are intended for re-circulating service. It should provide some rust prevention benefit for bearings that are exposed to the weather. Finally, it should quickly wet the bearing surfaces and build a strong film that resists water or steam washing and maintains efficient boundary lubrication.*
- 4) *Feed the oil conservatively! Do not flood the bearing and cover everything with the lubricant! A good open bearing lubricant will establish and maintain an adequate film with a modest amount of oil. Most open bearings do not require the lubricant to carry away heat. A little bit will go a long way.*
- 5) *Use a metering type of lubricator where possible. A lubricator will add lubricant to the bearing continuously during operation and will provide more effective lubrication.*

Enjoy your steam machinery, learn about this ancient technology and have fun.
Remember. If it has an open journal bearing it needs Green Velvet!