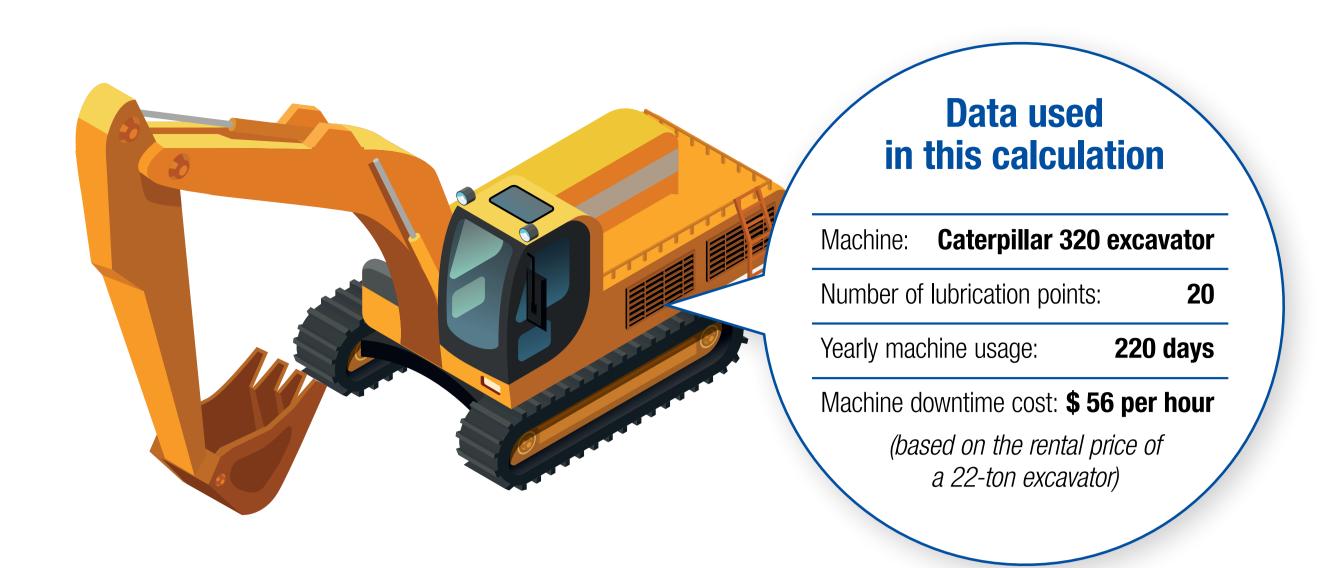


LUBRICATION

HOW TO CALCULATE THE ROI OF AN AUTOMATIC LUBRICATION SYSTEM

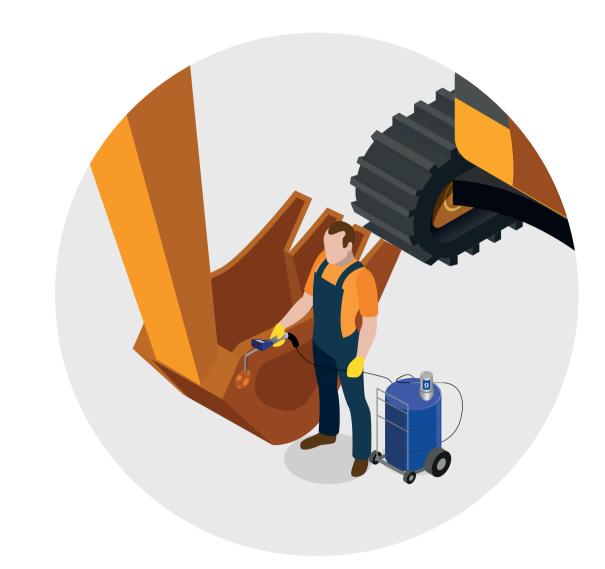
In order to calculate the ROI, we need to compare the cost of the automatic lubrication system (ALS) and the cost involved in manual lubrication, including the cost of downtime.





Automatic Iubrication system

Cost: \$ 4,500



Manual labor

Lubrication: daily
Labor cost: \$ 25 / hour
Lubrication cycle: 20 minutes





STEP 1

Calculate the annual cost of manual lubrication

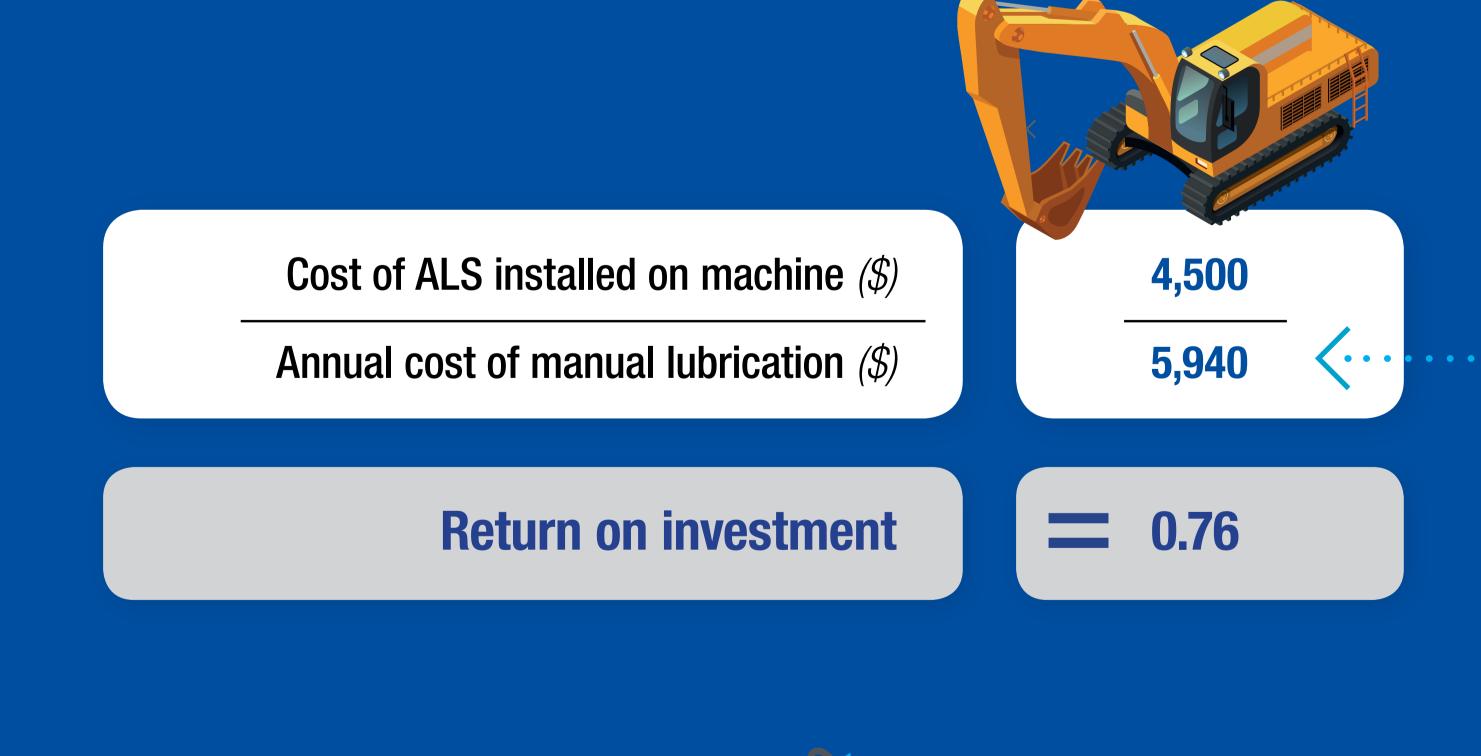
Machine downtime cost (\$ per hour)	56
Labor cost (\$ per hour)	+ 25
Number of lubrication points	X 20
Time to lubricate one point (hour)	X 1/60
Frequency (1 / days between lubrication)	X 1/1
Yearly machine usage (days)	X 220

Annual cost of manual lubrication



STEP 2

Compare the cost of the automatic lubrication system (ALS) and the annual cost of manual lubrication





ROI = 9 months & 3 days

An investment in an automatic lubrication system for a Caterpillar 320 excavator

has been repaid after three quarters of a year. After this period,

your investment will generate nothing but profit.