# **TECH BULLETIN 134**



# **Piston and Plunger Pumps Crankcase Capacities**

To ensure long service life from your Cat Pumps drive end, the appropriate oil level must be maintained. The tables below show the required oil volume for each series of pump. The oil level must be filled to the red dot on the bubble sight glass on the pump's crankcase. On 60 frame pumps, use the dipstick near the back of the crankcase to check the oil level.

#### **PISTON PUMPS**

	OIL CAPACITIES	
PUMP FRAME	Ounces	Liters
3FR Piston	10	0.30
4FR Piston	21	0.62
5FR Piston	21	0.62
10FR Piston	40	1.18
25FR Piston	84	2.48
60FR Piston	321.2	9.50

#### PLUNGER PUMPS

	OIL CAPACITIES	
PUMP FRAME	Ounces	Liters
3FR Plunger	15	0.44
5FR Plunger	18	0.53
7FR, 8FR Plunger	25	0.74
15FR, 18FR Plunger	42.6	1.26
25FR, 28FR Plunger	84	2.48
35FR, 38FR Plunger	134.4	3.97
60FR, 68FR Plunger	321.2	9.50
150FR Plunger**	22.4 gallon	85.00

\* No longer in production

\*\* Use Cat Pumps ISO 100 special formula premium grade

## **PLUNGER – DIRECT DRIVE PUMPS**

	OIL CAPACITIES	
PUMP FRAME	Ounces	Liters
1CX Plunger	2.03	0.06
1DX Series *	8.5	0.25
2DX Series *	8.5	0.25
2SF, 2SFX Series	10.1	0.30
2SFSEEL Series	10.1	0.30
2SFQSEEL Series	10.1	0.30
2SFP Series	10.1	0.30
3DX, 3DNX Series *	8.5	0.25
3SP, 3SPX Series *	10.15	0.30
4DX, 4DNX Series	8.5	0.25
4DX03ELR	8.5	0.25
4HP Series *	22.6	0.67
4SF Series*	23.66	0.70
4SP, 4SPX Series	10.1	0.30
5DX Series *	22.6	0.67
5SP Series	13.5	0.40
6DX Series *	22.6	0.67
66DX Series	18	0.53
67DX Series	13.5	0.40

### **CP MODEL PUMPS**

	OIL CAPACITIES	
PUMP FRAME	Ounces	Liters
3CP Plunger	12	0.35
5CP Plunger	17	0.50
7CP Plunger	38.9	1.15

**NOTE:** Check the oil level and quality daily. A black oil color can indicate old, worn oil, overheating of the oil, or incorrect oil. Milky-white oil color is an indication that water has leaked from the pump manifold and contaminated the oil. Service the pump as soon as possible.

Cat Pumps recommends the use of its ISO 68 high-pressure hydraulic pump oil. Custom-blended and specially-formulated to meet exacting specifications, this premium-grade, petroleum-based oil contains an advanced additive package to protect against wear, oxidation, rust, and corrosion, and is proven to maximize the life of Cat Pumps products. For best results, perform an initial oil change after the first 50 hours of operation and every 500 hours thereafter.