"Turbine Jet Centrifuge" for Small Sludge Separation in Cold Header Machine, Way Lube, Quenching Oil Applications

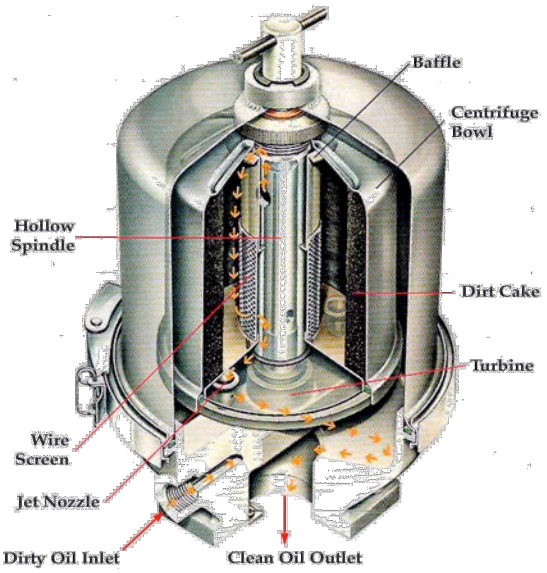
OILPURE SYSTEMS
The Machine Reliability Company
www.oilpure.com

Dual Turbine Jet Centrifuge
Model: TC-8 (30 GPM)

The TC-8 is a dual TC-4 Centrifuge units with each @15 GPM flow rate. The TC-8's built-in jet turbine propels the centrifuge bowl at speeds that can **exceed 5,000 rpm**. The centrifugal force generates up to 3500 times the force of gravity - literally slinging sludges or solid particle having larger than 50 micron size out of the dirty oil onto the inside wall of the centrifuge bowl into a dense, removable cake.

To get to the centrifuge, dirty oil enters the side of the TC-8 housing and travels up through the hollow spindle. At the top of the spindle, a baffle distributes the oil uniformly into the centrifuge bowl. At 100 psi oil pressure, the bowl spins at about 5,000 rpm, and the oil quickly accelerates to a high speed. The resulting centrifugal force slings dirt outward onto the bowl wall where it mats into a dense cake. G-Force Gravity is controlled by VSD (Variable Speed Drive) from analog signal from oil pressure transiducer for a constant separation of G-Force.

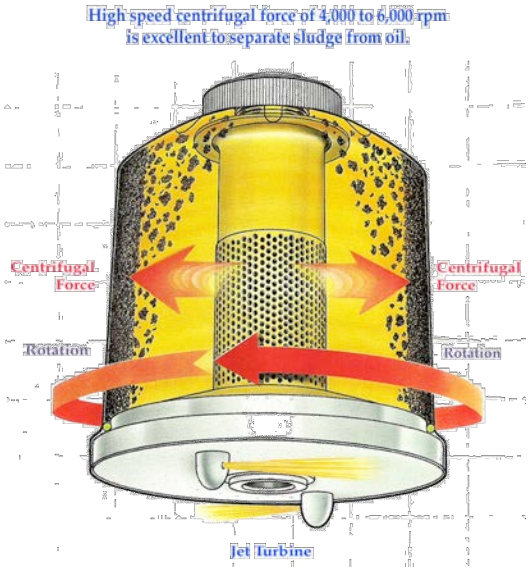
Cleaning takes only a few minutes. Just remove the top cover and lift out the centrifuge bowl. Inside the bowl, you will find sludge solidified into a compact, easy-to-remove mass. After removing the sludge cake, check the seals and return the bowl to the housing. There are no filter elements to replace or dispose of.

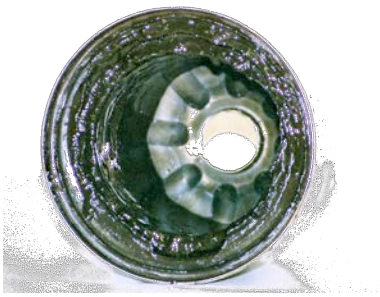


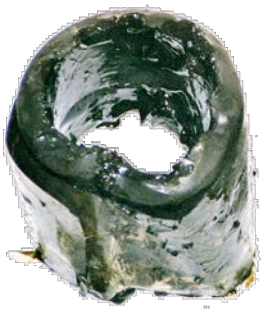
TC-8 is an excellent application

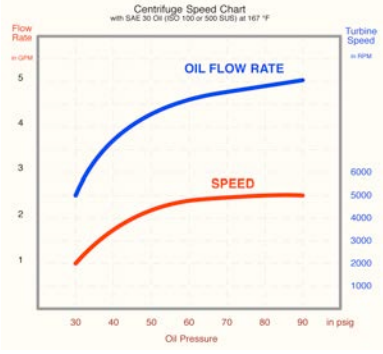
- *To remove Calcium sludge from Waylube n the Cold Header drawing machine.*
- *To remove sludge and metal fines from wire drawing machine.*
- *To remove excessive carbon particulate from quenching oil.*

10 to 15 Pounds of sludge was collected in the centrifuge bowl in 1 day from cold heading machine.









Specifications are subject to change without notice.

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