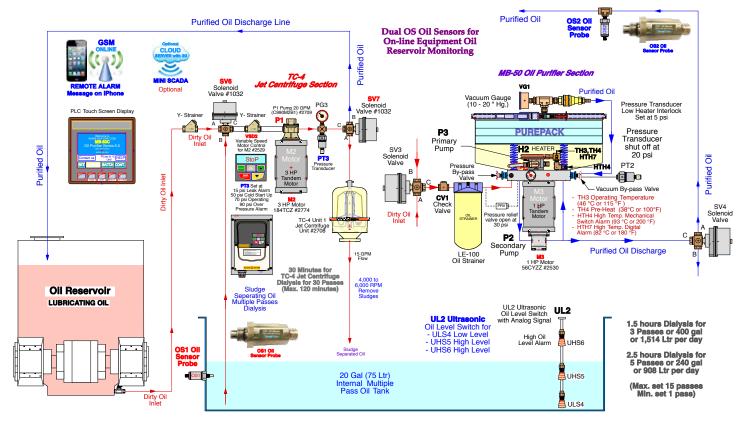


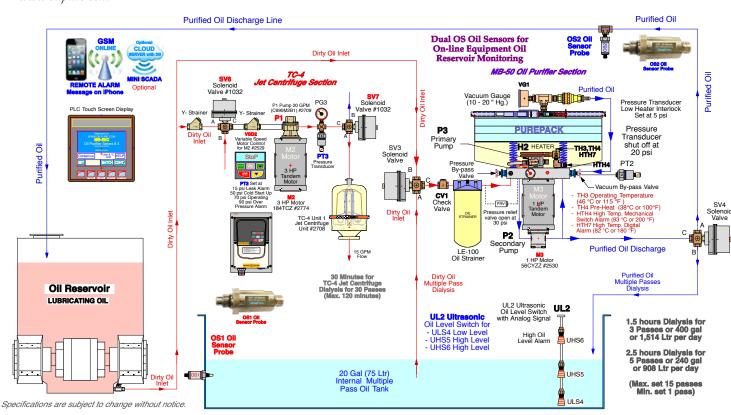
# Manual Mode Continuous Oil Dialysis for TC-4 Centrifuge Fluid Flow Diagram MB-50C Oil Recycling Machine Series 6.5, 480V-3ph



**DILPURE**SYSTEMS www.oilpure.com

240 to 400 Gallons per Day Oil Recycling Capacity

Manual Mode Continuous Oil Dialysis for MB-50 Oil Purifier Fluid Flow Diagram MB-50C Oil Recycling Machine Series 6.5, 480V-3ph



## Purified Oil Discharge Line **OS1 & OS2 Alarm Warning Conditions: Dual OS Oil Sensors for** Oil Contamination Alarm such as fuel dilution, coolant leakage etc. Sensor detects abnormal reading in the oil such as oil oxidation, oil additive depletion etc. Oil level in equipment oil reservoir is lower than usual. Excessive water breakdown alarm. On-line Equipment Oil Reservoir Monitoring П \*\*\*\* Oil Reservoir OS1 OII (를) 00000 Dirty Oil Suction Line Ţ Purified Oil Discharge Line Purified Oil Discharge Line HLS10 **Dirty Oil** Clean Oil Tank Tank MIN. **(=)** 00000 LLS7 Dirty Oil Suction Line T

### **Operation Includes:**

- MB-50 PurePack Oil Dialysis Section:

   Particulate removal down to 1 to 3 micron or get /SO 17/14/11 to /SO 16/13/10 oil cleanline.
  - Particulate fermioral down to 1 to 3 mileron or get 1,50 //7/4/1/ to 150 //50 for detailminess. PurePack chemical filter can absorb emulsified water down to less than 100 ppm from 1,500 ppm. Remove *oxidation by-products* causing high acidity reading in *Total Acid Number (TAN)*. 50 GPH flow capacity with over 90% filtration efficiency. Good for oil reservoir from 500 to 1,000 gal capacity. Low operating pressure at 10 psi. Auto stop operation at 20 psi pressure or timer switch at 1,000 hours (6 wks).

OS1 Oil Sensor Alarm Warning Conditions

degratdaion should be collected for 3 month period in order to obtain the oil contamination

& degradation base line.

- TC-4 Dual Jet Centrifuge Section:
  4,000 to 6,000 rpm high speed G-Force centrifigue.
  Remove 3 to 5 pounds of sludge per day.
  TC-4 Jet Centrifuge unit at 15 GPM for GPM pump capacity with multiple pass separation for effective sludge build up.
  Excellent application to remove sludge from Waylube in Cold Header Machines or Wire Drawing Machine or Cutting Oil or Quenching Oil.
  Low maintenance as it takes about 5 minutes to clean sludge from centrifuge bell unit.

Specifications are subject to change without notice

- Dual OS Oil Sensor Monitoring Section:

  Dual OS Oil Sensor is an on-line oil condition monitoring device which continuously monitors oil degradation and disrupted water breakdown. When oil condition in the oil reservoir degrades to the alarming level, OS will send analog signal to PLC to display the new oil changing status.

  OS Oil Sensor signal and oil degradation data curve can be stored for 3 months and downloaded to PC laptop computer through USB. Oil degradation will be monitored and displayed in a curve which indicates the lubrication quality.

  OS1 will monitor dirty oil at the oil inlet while OS2 will monitor the purified oil after MB-50C. Both of the degration curves will dispany on PLC for comparison.
- after MB-50C. Both of the degration curves will dispaly on PLC for comparison.

- MB-50C Integrated Features (MB-50C = MB-50 + TC-4 + OS + GSM):

  GSM wireless remote control that can send alarm in SMS text message up to 6 mobile phones with security password. MB-50C operation can be remotely operated by mobile phone by sending SMS text message codes to turn off the MB-50C.

  Automatic operation by \*Programmable Logic Control! (\*PLC) with Micro SD memory\* card. Ultrasonic non contact oil level switches with analog signal for internal tank control to prevent malfunction from excess oil contamination.

  Dual oil purification in both Batch-to-Batch Oil Recycling Operation and Continuous Oil Dialysis Operation with Built-in multiple pass internal 25 gal oil tank.

  Variable Speed Drive Control pump motor with analog signal for motor soft start long life and automatic oil pressure to control G-Force in TC-4 Centrifuge.

Oil Oxidation & Additive Depletion in Lubricant with Oil Purifier from OilPure

Back to

Tue 10:24 8-28-2010

Water begins breakdown

Sat 15:12 8-25-2010

- ₹ 2.9 No Oil Degradation Zero Machine Additive Depletion Oil Contamination Alarm such as fuel dilution, New PurePack Filter Change coolant leakage etc.
  Sensor detects abnormal reading in the oil such Breakdown Normal Oil egradation as oil oxidation, excessive water, oil additive 2.5 2.5 as oil oxidation, oxeca depletion etc. Oil level in equipment oil reservoir is lower Major by OilPure 3. 2.3 Hydraulic Component 2.3 Excessive water breakdown alarm.
  Corrective time of new oil replacement, rather than waiting for oil analysis result which can be too slow and complicated for decision. Breakdown 2.1 2.1 New Oil Change New Oil Change No New Oil Change 200 400 600 800 1000 1200 Run Time in Hours 1400 200 400 600 800 1000 1200 Run Time in Hours 1400 Oil Oxidation & TBN Additive Dep etion for Diesel Engine O Water Breakdown Alarm Oil Degradation Curve Reading from OS1 Oil Total Z - % Peak Corrective action taker Sensor that monitors lubrication quality. This signal can activate PLC to send warning alarm to central control operation. Warning alarm Each lubrication will show different oil ₩ 40 degradation curve. History data of oil

Oil Oxidation & Additive Depletion in Hydraulic Oil

Oil Oxidation

6-10-2010

7-30-2010

### OilPure Technologies, Inc. www.oilpure.com

11-7-2010

12-27-2010

2-15-2011

9-18-2010