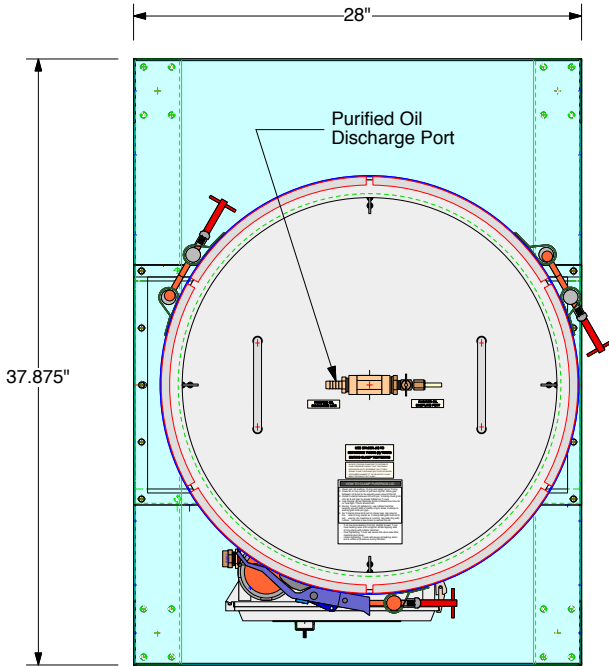




TOP VIEW



**Dedicated Oil Dialysis Machine with
OS1 Oil Sensor Monitoring Features:**

1. Particulate removal down to 1 to 3 micron or get ISO 16/14/11 to ISO 15/13/10 oil cleanliness.
2. Absorb emulsified water down to less than 100 ppm from max 2,000 ppm.
3. Remove oxidation by-products causing high acidity in Total Acid Number (TAN).
4. 30 to 50 GPH flow capacity with over 90% filtration efficiency.
5. Good for oil reservoir from 500 to 1,000 gal capacity.
6. Low operating pressure at 10 psi. Auto stop operation at 20 psi pressure or timer switch at 1,000 hours (6 wks) for Continuous Oil Dialysis.
7. Immersion heater with built-in thermostat and high temperature alarm shut down.
8. Double pumps, P1 for primary pump and P2 for secondary pump
9. 3.50" LCD digital touch screen display for operational messages with NEMA 4 enclosure.
10. Automatic operation by *Programmable Logic Control (PLC) with SD memory card.*
11. 110VAC-1ph or 220VAC-1ph or 380V-3ph or 480V-3ph
12. Dry weight is 300 pounds (136 kgs).
Dimension 28" W x 38" L x 39" H with 24" dia Pot

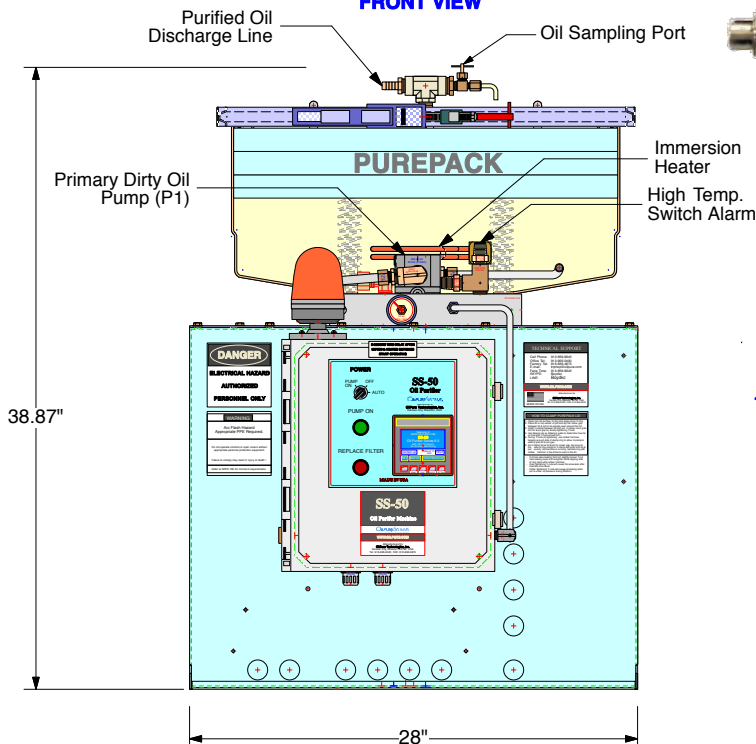
OS1 Oil Sensor Monitoring:

13. **OS1 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, OS1 will send analog signal to PLC to display the new oil changing status.
14. **OS1 Oil Sensor signal** and oil degradation data curve can be stored for 3 months and downloaded to PC laptop computer by Blue Tooth. Oil degradation will be monitored and displayed in a curve which indicates the lubrication quality.

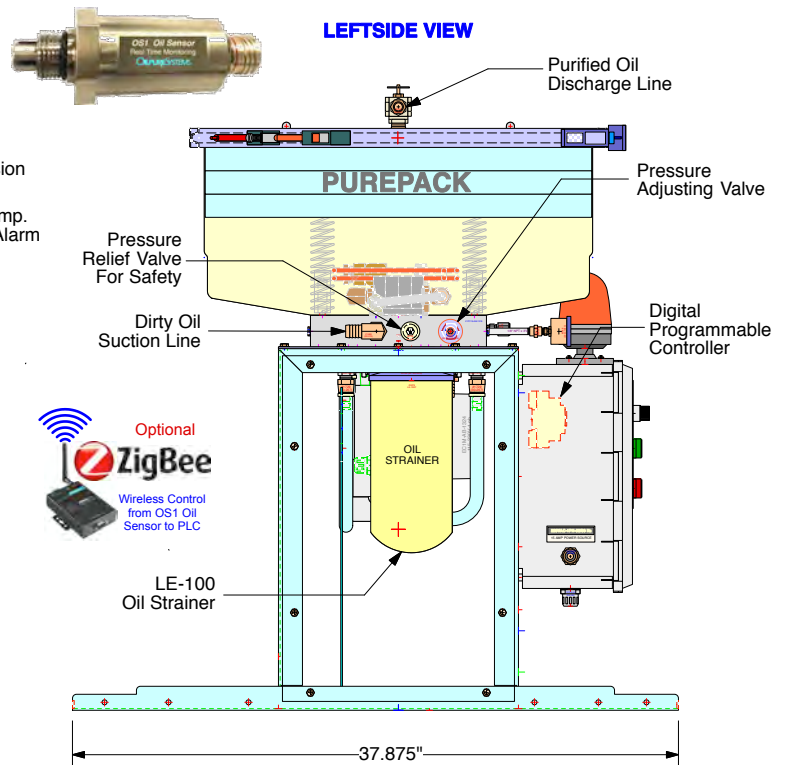
**Optional GSM wireless Remote Control &
ZigBee Wireless Communication:**

15. Optional **GSM wireless remote control** that can send alarm in SMS text message up to 6 mobile phones with security passwords. SS-50 operation can be remotely operated by mobile phone by sending SMS text message codes to turn on or turn off the SS-50.
16. Optional **CLOUD Server** for on-line web base Mini SCADA monitoring process.

FRONT VIEW

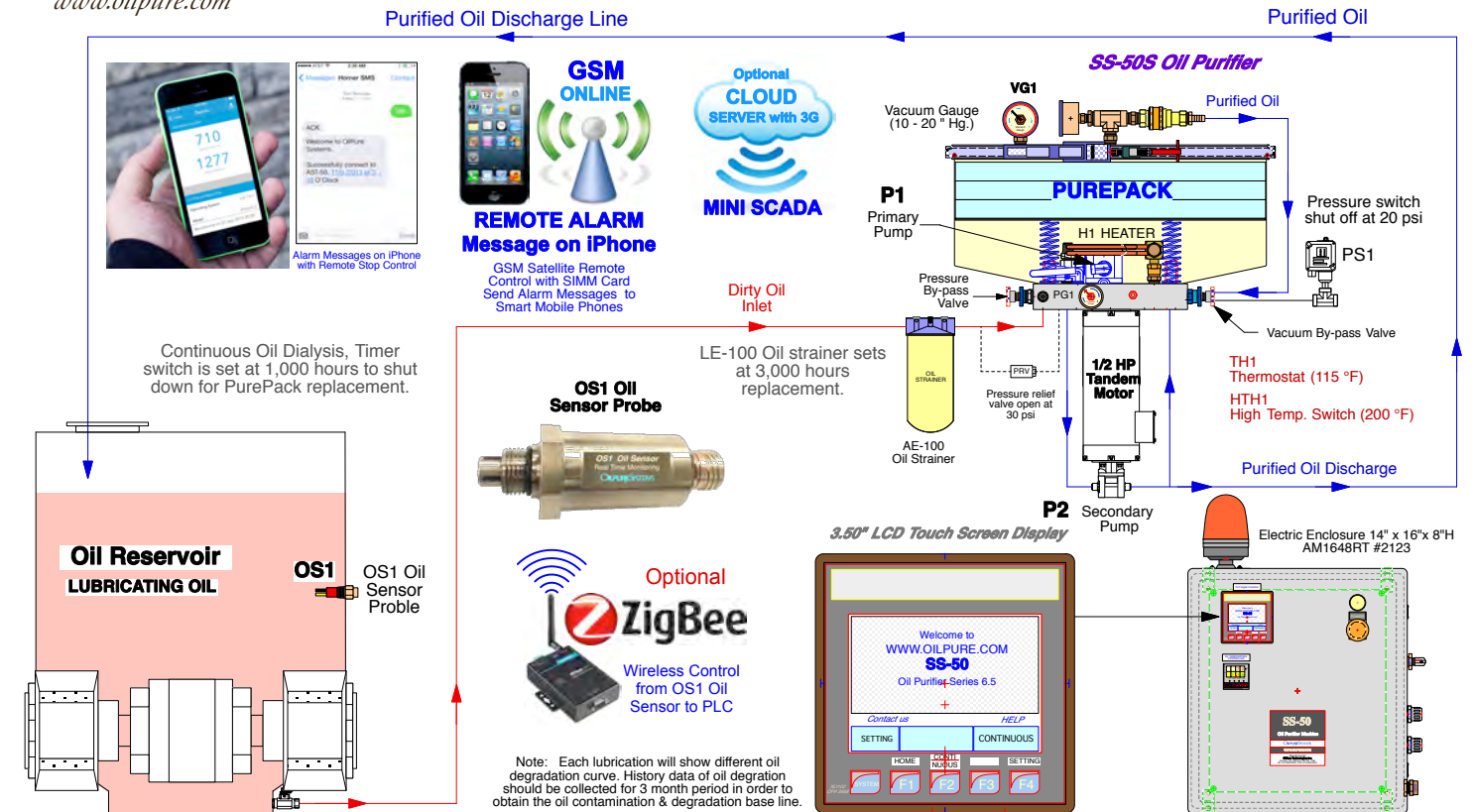


LEFTSIDE VIEW

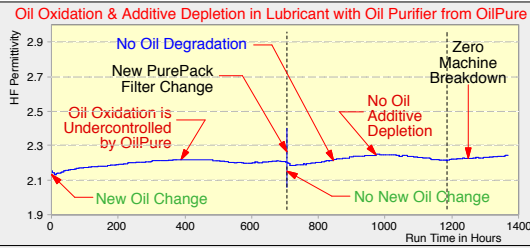
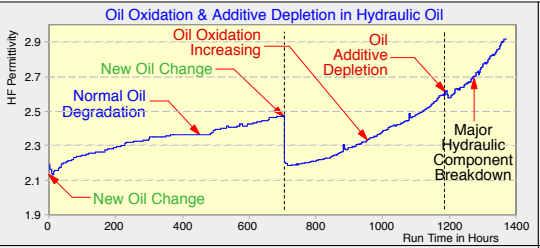


OS1 Oil Monitoring Sensor

Continuous Oil Purification Fluid Flow Diagram
SS-50S Oil Dialysis Machine Series 6.5

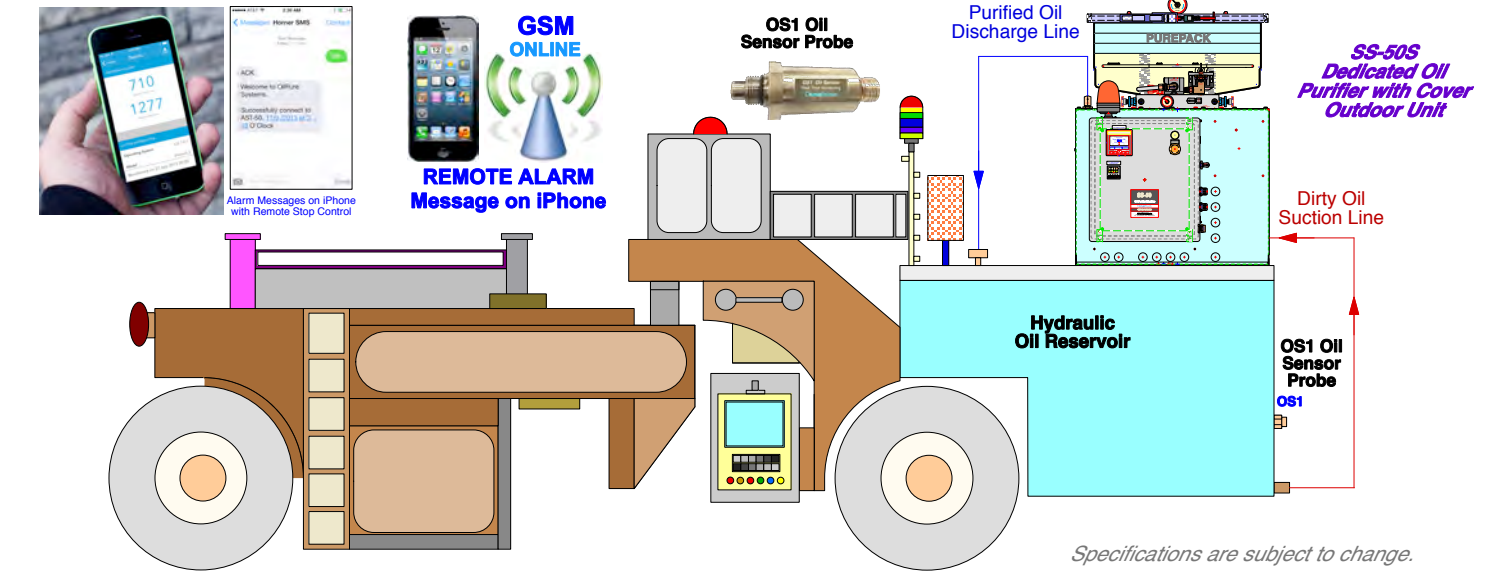
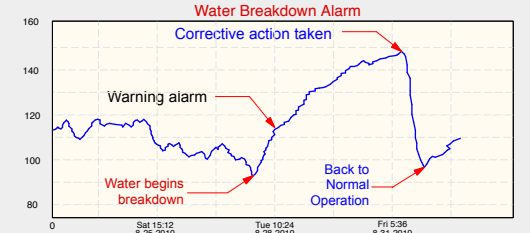
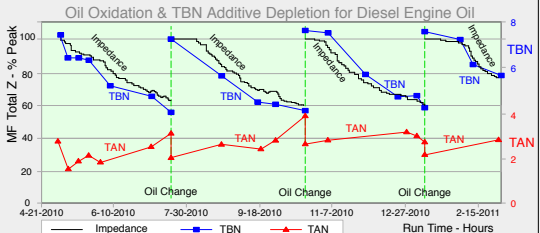


- OS1 Oil Sensor Alarm Warning Conditions**
1. Oil Contamination Alarm such as fuel dilution, coolant leakage etc.
 2. Sensor detects abnormal reading in the oil such as oil oxidation, excessive water, oil additive depletion etc.
 3. Oil level in equipment oil reservoir is lower than usual.
 4. Excessive water breakdown alarm.
 5. Corrective time of new oil replacement, rather than waiting for oil analysis result which can be too slow and complicated for decision.



Oil Degradation Curve Reading from OS1 Oil Sensor that monitors lubrication quality. This signal can activate PLC to send warning alarm to central control operation.

Each lubrication will show different oil degradation curve. History data of oil degradation should be collected for 3 month period in order to obtain the oil contamination & degradation base line.



Specifications are subject to change.