

# Moisture in Oil -

Moisture in oil is the biggest enemy of hydraulic & lubricating oils ... even bigger than particulate contamination

The chart below explains the co-relation of moisture and acid / sludge formation in oil.

## FUNCTION OF CATALYSTS

Test	Catalysts (Metal)	Water	Time (Hrs)	Acid Value
1	nil	nil	3,500	0.17
2	nil	exist	3,500	0.90
3	iron	nil	6,500	0.65
4	iron	exist	400	8.10
5	copper	nil	3,000	0.89
6	copper	exist	100	11.20

Note:

1. Time: hours for reaching a certain level of acid value.
  2. Test oil is turbine oil with viscosity of 32cSt/100°F (37°C)
  3. Tested oil temperature is 200°F (93°C)
- Acid value indicates formation of "Sludge" and sticky resinous matter which forms hard deposits on valves, pipes.

With the Vacuum Detector and the Electrostatic Cleaner, Ferrocare Machines' ability to provide solutions to users of hydraulic and lubricating oils is well known.

Now with early detection integrated into these, users have a formidable productivity enhancing solution.



# Detect it, Measure it, Remove it!

At last, A quick, accurate & simple solution to measure moisture in oil.

**Ferrocare** responds to the urgent need to measure moisture levels on-line, instead of the traditional Karl Fischer Titration Method

**Introduces yet another 1st -**

A **Moisture Sensor** installed in the Vacuum Dehydration Unit which switches on the Dehydrator and the Electrostatic Cleaner **automatically.**



Now don't just detect moisture, *Remove it immediately!*

Moisture Sensors are of limited value if the solution to its removal it is not provided.

From the Solutions Company -The Ultimate Solution - **The Smart Combo**

**Ferrocare Machines offers you**

- ☒ Moisture Detector integrated with Vacuum Dehydrator
- ☒ Particulate Counter integrated with Electrostatic Cleaner



- Simple to use • Easy to operate
- Cost effective • Economical