



John Lamb <viamed.john.lamb@gmail.com>

Megalodon sensors

2 messages

Steve Nixon <steve.nixon.viamed@googlemail.com>

Sun, Oct 6, 2013 at 11:38 AM

To: John Lamb <john@lamb.uk.net>

John

She should address the matter through ISC. Suspect this is an example of 'bubble" problem with the first two sensors. I am following this up with the factory, this is why I am going back this month.

Possible solution is the 'saver' cap.

Steve

John Lamb <john@lamb.uk.net>

Sun, Oct 6, 2013 at 4:37 PM

To: Steve Nixon <steve.nixon.viamed@googlemail.com>

Hi

If the problem is bubbles.

1. What % of sensors are effected.

If the bubbles are due to evaporation which I question. Evaporation will reduce the internal volume , compensated by the rear membrane.

2. Where do the bubbles come from.

3. Will the sensors read high in air. (10% is still 1mV.)

4. If they read high in air are they still linear. If they are linear calibration will take care of the rise at 1.4B.

5. Why do the bubbles not show as erratic readings. As we increase pressure the bubbles will reduce in size so at 1B air they must be huge.

6. Is a good gas bag the same as a saver cap

7. A gas bag sends the sensor to sleep and we get a reduced output on wakeup?

will this not happen with a saver cap.

8. In a sealed bag where does the moisture go. It can only pass through the membrane of the sensor if it evaporates first from the bag. Unless the bag is filled with dry gas.

9. Maybe a small foam disk wetted in the bag will solve the problems. If a colour change with moisture foam is used it will show possible dried out sensors.

10. A pin hole in the bag solves the low output on opening but does it reduce or enhance the bubble question.

11. We need to establish if slowing down the sensors to 7 secs will be acceptable to OEM's. If asked why . It will enhance the sensor life by 15-20% This we believe is important as some distributors are storing sensors over three months.

Just some thoughts for you to contemplate in your quiet moments.

John

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