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### Service Report

SBE Job Number: 36316

Date: July 12, 2004

Customer: US Department of Commerce, NOAA

#### Customer Identified Problem:

1. Calibrate SBE 43 DO sensors, S/N 430140 and 430154.

#### Problems Found:

1. SBE 43 DO sensor, S/N 430140.  
The SPAR assembly was found to have failed.  
Post calibration of the sensor could not be performed.
2. SBE 43 DO sensor, S/N 430154.  
The oxygen membrane was found to be punctured.  
Post calibration of the sensor could not be performed.

#### Services Performed:

1. Calibrations and services performed on SBE 43 DO sensor, S/N 430140.  
Replaced the SPAR assembly.  
Re-backfilled the sensor's electrolyte reservoir.  
Backfilled the pressure compensation bag with saline solution.  
Calibrated the sensor.  
Performed full diagnostic evaluation.
2. Calibrations and services performed on SBE 43 DO sensor, S/N 430154.  
Replaced the lid and membrane assembly  
Re-backfilled the sensor's electrolyte reservoir.  
Backfilled the pressure compensation bag with saline solution.  
Calibrated the sensor.  
Performed full diagnostic evaluation.