

gear failure placed #5 Main Diesel Engine out of commission on 10 August.

#1 Main Diesel Engine suffered a casualty to the scavenger blower on 19 August, while anchored off Barrow, Alaska. Upon disassembly, it was found that the blower lobes had failed, but the casing remained intact. Rebuilding of the blower will be accomplished upon return to San Francisco.

### 3. Fuel and Lubricating Oil

Fuel consumption was lower than expected between departure from Juneau and arrival at Barrow, due to several days spent at anchor and over 10 days on only two engines during scientific operations. Total fuel fuel/lube oil expenditures for AWS-77 were:

Diesel Fuel, Marine.....	313,715 gallons
JP-5.....	6,448 gallons
9250 Lube Oil.....	6,094 gallons