

Pollution Prevention Afloat: Hydraulic Fluid Electronic Particle Counter

Technology Description

- Commercial system for optically detecting & quantifying particulate contamination in aviation hydraulic fluid
 - Replaces hydraulic fluid patch testing that requires hazardous petroleum distillate solvent



Electronic Particle Counter, this one aboard USS WASP (LHD-1), for hydraulic fluid testing is faster, more accurate, more convenient, & more environmentally friendly than traditional testing based on hazardous solvent

Benefits

- ☆ Help comply with wide range of laws, regulations, Executive Orders, & Navy policies establishing HM reduction & pollution prevention goals & requirements
- ☆ Reduce wastage of hydraulic fluid, as well as waste mixtures of hydraulic fluid & solvent
- ☆ Favorable return on investment (per ship)
 - \$235K savings over 10 yrs
 - <9-month break-even point
 - 67% labor reduction

RDT&E Status

- Successful evaluations on amphibious & aircraft carrier ships
- Technology opportunity for existing & future ships