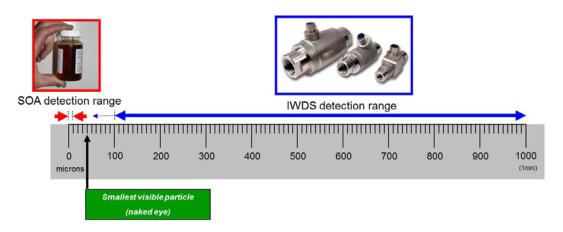
Deployed Wear Debris Analysis (WDA)

DSTO looking at novel applications of **inductive wear debris sensors**.

Broad particle detection range = increased confidence of fault detection

Two main focuses (both TRL 5):

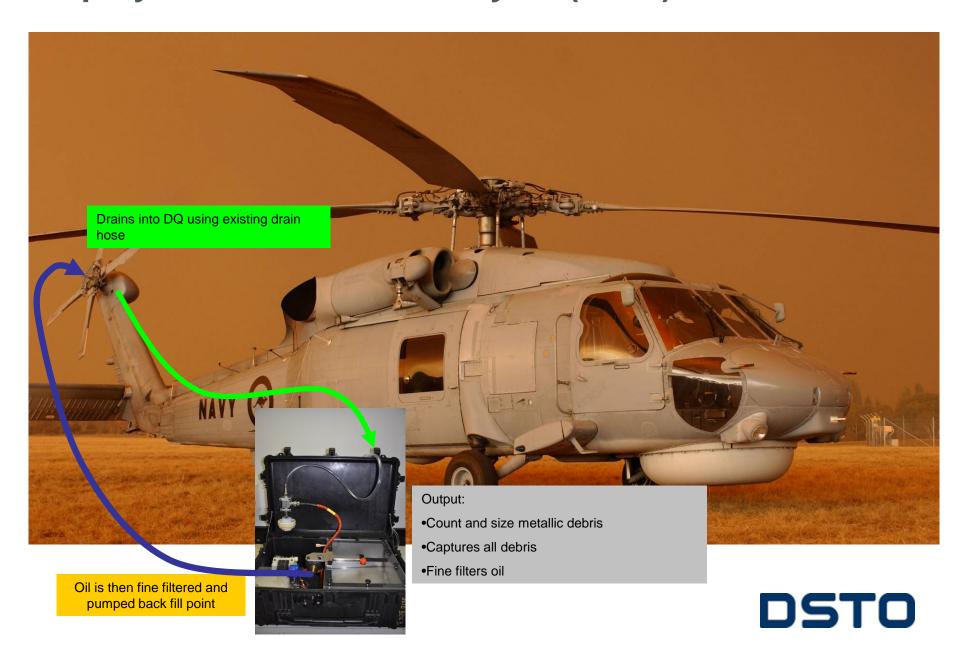
- 1. Sump Debris Quantifier (SDQ).
- · improved design recently manufactured
- Takes oil from gearbox, quantifies metallic debris, captures all debris>60 micron, fine filters lube and returns to gearbox
- Enables flushes to occur when deployed without wasting lube
- Provides instant info about metallic debris (size and count)







Deployed Wear Debris Analysis (WDA)



Deployed Wear Debris Analysis (WDA)

- 2. Chip detector debris quantification.
- Improved design recently manufactured
- Uses compressed air jets to remove debris from chip detector
- Counts and sizes debris

