

3FAST

Fast Field Fluid Assessment Support Tools

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THE PROBLEM



Current technology involves collecting and shipping oil samples to centralized laboratories and awaiting results before taking maintenance action.

Laboratory costs are high both in-theater and offsite

Shipping and delay costs are high

90% of samples come back healthy, i.e. no action required

TECHNOLOGY APPROACH



Utilizing infrared spectrometry, viscometry, and other techniques, 3FAST will give maintainers the capability to assess fluids in near real time. 3FAST supports CBM by making possible on-demand testing and on-condition changes rather than relying on hard time or hard mileage intervals.



The goal: equip soldiers with tools for real-time, on-site, fluid assessment. 3FAST tools will revitalize the way our military maintains its equipment.



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RESULTS ACHIEVED



Testing is completed locally

Lower volume of oil required

No need to submit samples to the lab

Results are obtained immediately

Platform specific oil quality testing
& component health information

Reduced sample volume; less
hassle; topping off no longer needed

Testing on demand; results
in minutes not days/weeks

3FAST ADVANTAGES

Centralized data tracking/mining to
improve component health & performance

Empowerment of our maintainers /
warfighters



POTENTIAL BENEFITS

Helping our warfighters

Affordability for ARMY ground equipment

Applicability for deployed NAVY units

Improved testing for USAF aviation

Sustainability for USMC equipment



PROJECT TEAM



Technical Lead



All four Armed
Services Integrated
Planning Team



PROGRAM
MANAGEMENT



Lead Contractor - FluidScan
infrared spectrometer forms
backbone of 3FAST sensor slate



a division of Vectron International

Viscosity sensor

VOTE FOR 3FAST

