

BI-02A.70 Fire resistant coolants, hydraulic fluids are tested, approved and available for use in mobile equipment, when required.

(Accountable - Engineering Manager (Site) (Unassigned))

Expectations

Fire resistant coolants and hydraulic fluids are tested, approved and available for use in mobile equipment, when required.

Specify

Fire resistant hydraulic fluids specifications.

- A spray flammability parameter is calculated (SFP).
- Fire-resistant fluids are grouped into three categories based on their SFP values.
- In the US mining industry, the U.S. Mine Safety and Health Administration (MSHA) has established a set of testing methods for determining fire-resistant hydraulic fluids (Code of Federal Regulation, 2001).
- The MSHA testing methods include an autoignition temperature test, a temperature-pressure spray ignition test and a test to determine the effect of evaporation on flammability.

A hydraulic fluid is designated as fire-resistant if it passes all three tests.

Implement

OEM confirms that fire-resistant hydraulic fluids can be used without a retro fit.

Fire resistant hydraulic fluid provider confirms test results including that the fire resistant product has a high minimum hot surface ignition temperature than the hydraulic fluid that it is replacing.

Monitor

Industry or company level project