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Quaker Houghton™
Forward Together™

FIRE-RESISTANT HFD-U HYDRAULIC FLUIDS PRODUCT LINE

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FIRE-RESISTANT HFD-U HYDRAULIC FLUIDS

PRODUCT	PROPERTIES	KINEMATIC VISCOSITY 40°C MM2/S (ASTM D 445)	KINEMATIC VISCOSITY 100°C MM2/S (ASTM D 445)	VISCOSITY INDEX	DENSITY AT 15°C (ASTM D 1298)	ACID NUMBER MG KOH/G (ASTM D 974)	POUR POINT (ASTM D 97)	FLASH POINT (ASTM D 92)	FIRE POINT (ASTM D 92)	AUTO IGNITION POINT (DIN 51794)	AIR RELEASE MINUTES (ASTM D 3427)	FOAM TEST AT 25°C (ASTM D 892 SEQ 1)	DEMULSIFIABILITY (ASTM D 1401)	PUMP TEST V104C (ASTM D 2882)	GEAR LUBRICATION FZG (DIN 51354-2)	SHEAR STABILITY (ASTM D 2603)	DRY TOST (HOURS) (ASTM D 943)	FACTURY MUTUAL APPROVAL (6930)
QUINTOLUBRIC® 888-46		47.5	9.5	190	0.92	<2.0	<-30°C	300°C	360°C	>400°C	7 min.	<50-0	41-39-0	<5 mg	>12	0	800	Y
QUINTOLUBRIC® 888-68		68.0	12.5	185	0.92	<2.0	<-30°C	304°C	360°C	>400°C	7 min.	<50-0	42-38-0	<5 mg	>12	0	800	Y
QUINTOLUBRIC® 865-46		47.5	9.4	190	0.92	<2.0	-30°C	300°C	360°C	>400°C	7 min.	<50-0	41-39-0	<5 mg	>12	<1%	400	Y
QUINTOLUBRIC® 865-68		68.0	12.5	185	0.92	<2.0	-30°C	300°C	360°C	>400°C	7 min.	<50-0	42-38-0	<5 mg	>12	<1%	400	Y

QUINTOLUBRIC® Fire-Resistant Hydraulic Fluids

Quaker Houghton's complete portfolio of QUINTOLUBRIC® engineered solutions provide world class HFD-U technology to meet the lubrication requirements of high performance hydraulic equipment.

They offer you:

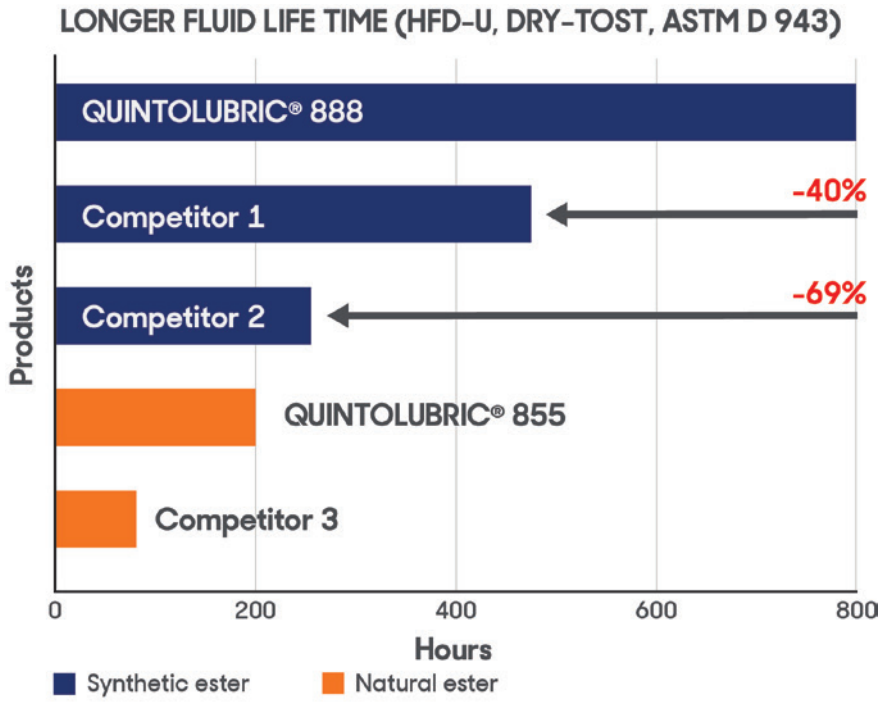
- Factory Mutual Approved (FM)
- Extended hydraulic fluid life time
- Lower maintenance costs with less downtime & equipment replacement
- Environmentally friendly (biodegradability >80% OECD 301-C)
- Stable viscosity in use - excellent shear stability

QUINTOLUBRIC® 888 series: Best in class

This range of fluids is designed to replace anti-wear, mineral oil-based hydraulic fluids used in applications where fire hazard exists. These fluids do not contain water, mineral oil, or phosphate ester, and are based on high-quality, synthetic, polyolesters and carefully selected additives to achieve maximum fluid lifetime and performance.

Key benefits:

- Endorsed by all major OEM's
- Factory Mutual Approval (FM)
- German Steel Institute (VDEh) approved (SEB 181 224)
- MSHA approval
- Longer life time: Best in class oxidation stability
- Excellent wear protection
- Suitable for use in environmentally sensitive hydraulic applications
- Global formulation



A key performance parameter that can be used to differentiate HFD-U fluids is oxidation stability leading to extended hydraulic fluid life. Quaker Houghton has engineered its line of HFD-U fluids to provide the best in class oxidation stability.