

2023. 09. 6-7.

XII. Lakiteleki Tűzvédelmi Szakmai Napok



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“Tűzeset” a sprinkler gépházban?

Kapitány Judit

Sprinkler szivattyú gépház

**Diesel Driven
HSC Fire Pumps**



Szivattyú



Szivattyú



Szivattyú



Szivattyú



Motorok



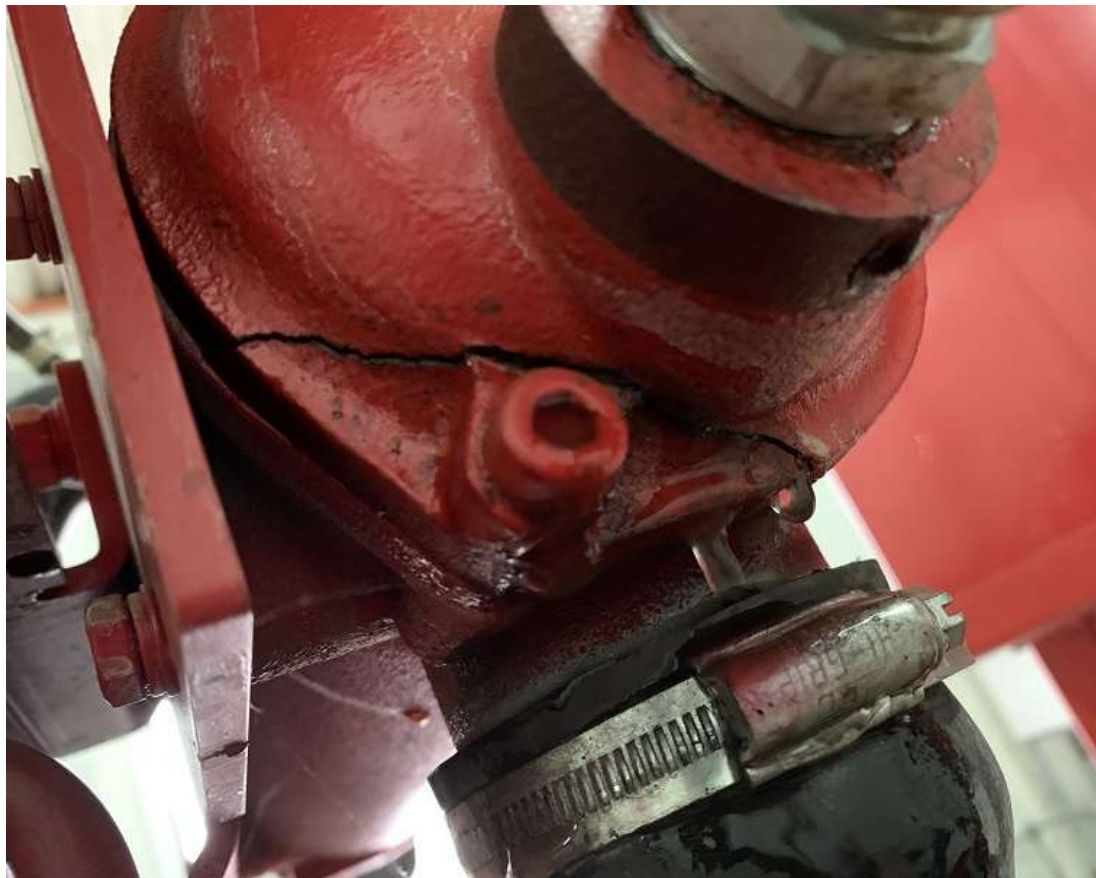
Dízel motor



Dízel motor



Dízel motor



Dízel motor



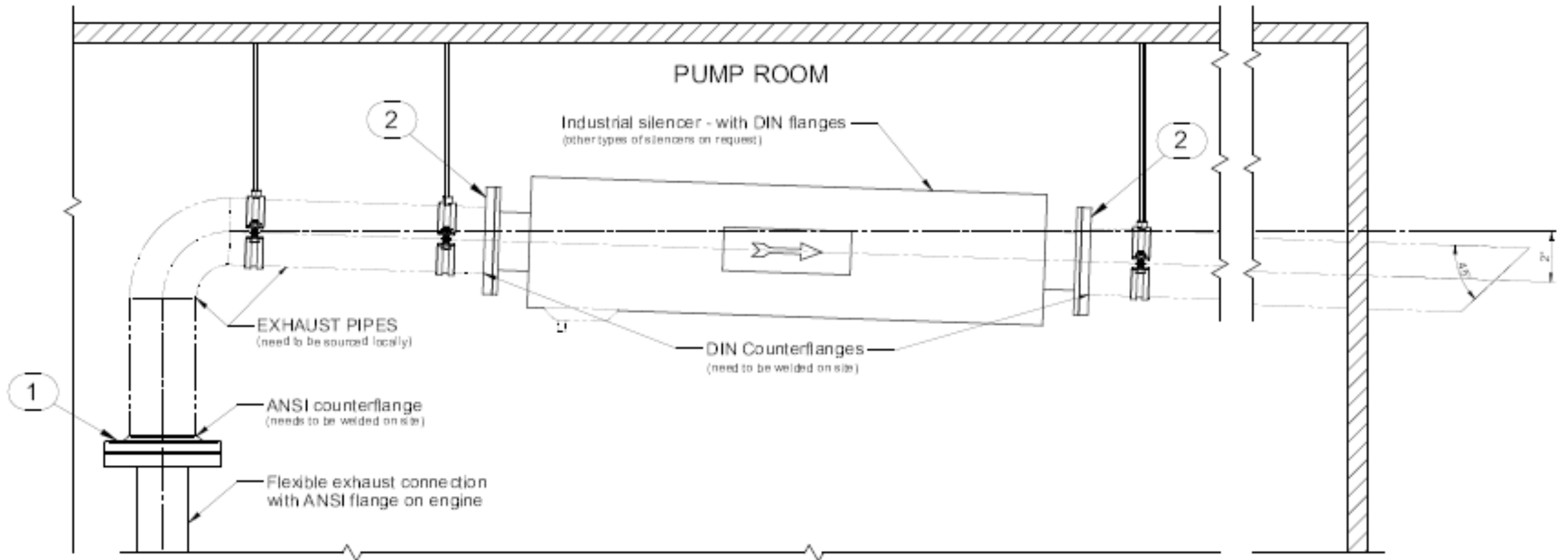
Dízel motor



Dízel motor



Égéstermék elvezetés



Hűtőközeg, alkatrészek cseréje

CLARKE®

Date: January 19, 2022

Notice: Clarke Service Bulletin – CSB 013 Rev C

Service Bulletin

Coolant System Maintenance

To maintain optimal performance, the Clarke Heater System needs to be maintained.

Per recommendations from the engine manufacturers, it has become necessary that engine coolants be changed every 12 months using **Clarke Coolant** (part # C054129). The **only** acceptable substitute is **COOL-GARD II™** part number TY26575.

The recommended maintenance instructions pertaining to the coolant system are as follows: (Pictures are not inclusive of all models). **Warranty is contingent on utilizing the indicated coolant.**

- Have an authorized person take the engine "Out of Service"
- **Disconnect electrical power to the heater system**
- Drain the coolant from the drain port / lowest section of the system.

CAUTION: Coolant may be Hot.

Replace all hoses according to the schedule defined in Clarke's operation and maintenance manuals on the Clarke website.

If during this process hoses are found to be brittle, inflexible or showing signs of swelling, replace them immediately instead of waiting for the standard 2-year replacement.

- **If coolant has been changed more than once and particulate is found, replace the heater.**

- **Flush the system with clean water until clean / clear liquid comes through the outlet.**

- Drain remaining water.

- Reconnect all hoses and close drain points.

- Refill system slowly with coolant until the system is full.

- **Do not mix coolants.**

- Reconnect power to system / heater.

- Run the engine in weekly test mode to verify the system is leak free.

After engine has been stopped, verify coolant in the expansion tank has returned to the proper level. Refill if necessary.

CAUTION: Wait until engine has cooled before removing the coolant system pressure cap. Pressure may exist.

- If there is any concern over the coolant in-between 12 month cycles contact Clarke for a coolant test kit, Clarke Part# C12E128.

Please contact Clarke customer support for questions regarding this bulletin or to order replacement parts at 513.475.3473 or parts@clarkefire.com. Thank you!

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Clarke Fire Protection Products Ltd
Grange Works, Lomond Road
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Scotland, ML5 2JN

March 6, 2018

To: Pump OEM's, Packagers, Installers, End Users, AHU's etc
Subject: Clarke Biodiesel Summary Letter

With increased utilization of biodiesel as an alternative fuel type to 100% petroleum based diesel fuel, Clarke have seen increased requests to operate our diesel fire pump drivers on biodiesel fuel.

Biodiesel fuel specifications vary dramatically, both in terms of blend concentration (% biodiesel compared to % petroleum diesel [B1 – B100]) and in terms of the chemical properties of the underlying esters used in their manufacture. For this reason, there is no simple yes or no answer to such requests.

Per the Clarke diesel fuel requirements document (C130902), we only recommend that our engines are operated using IEC 3-D 515 Diesel Fuel conforming to ASTM International D-975 or British Standard BS2859 (Fuel oils for agricultural, domestic and industrial engines and boilers specification). Therefore, 100% petroleum fuel shall be used whenever possible.

Clarke recommend that customers who wish to operate our diesel fire pump drivers on specifications of biodiesel fuel review the base engine OEM's specific guidelines for the use of biodiesel fuel in their internal combustion diesel engines. To assist in this review, Clarke have contacted our main engine OEM's and requested their latest fuel statements, including the use of biodiesel in their products.

These statements can be found on our website here: <http://www.clarkefire.com/reference/reference-data/Miscel-fuel-requirements>

In addition to the guidelines of the engine OEM's, Clarke must also highlight the position taken within the "NFPA 20 Standard for the Installation of Stationary Pumps for Fire Protection":

"A.11.4.5.1 Biodiesel and other alternative fuels are not recommended for diesel engines used for fire protection because of the unknown storage life issues. It is recommended that these engines use only petroleum fuels."

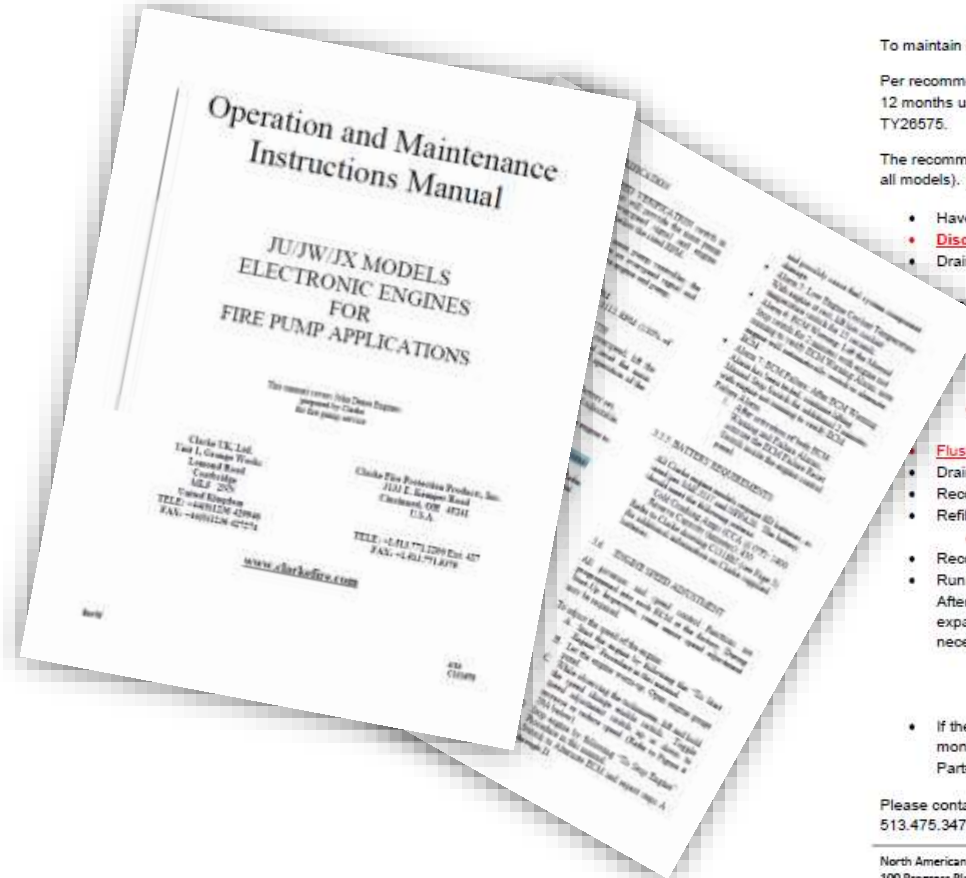
Common industry concerns relating to the use of biodiesel within emergency standby service diesel fire pumps include, but are not limited to:

- Long-term storage stability issues of biodiesel fuels. (Anticipated low operation hours)
- Reduced engine power output potentially preventing the driver from operating the fire pump at the maximum duty design point. (Biodiesel often has a reduced cetane rating compared to 100% petroleum based diesel fuels)
- NFPA 25 & Clarke recommended driver maintenance schedules may not be sufficient to prevent adverse product performance. (Biodiesel increases the incidence of fuel filter clogging, oil contamination and rubber hose degradation)

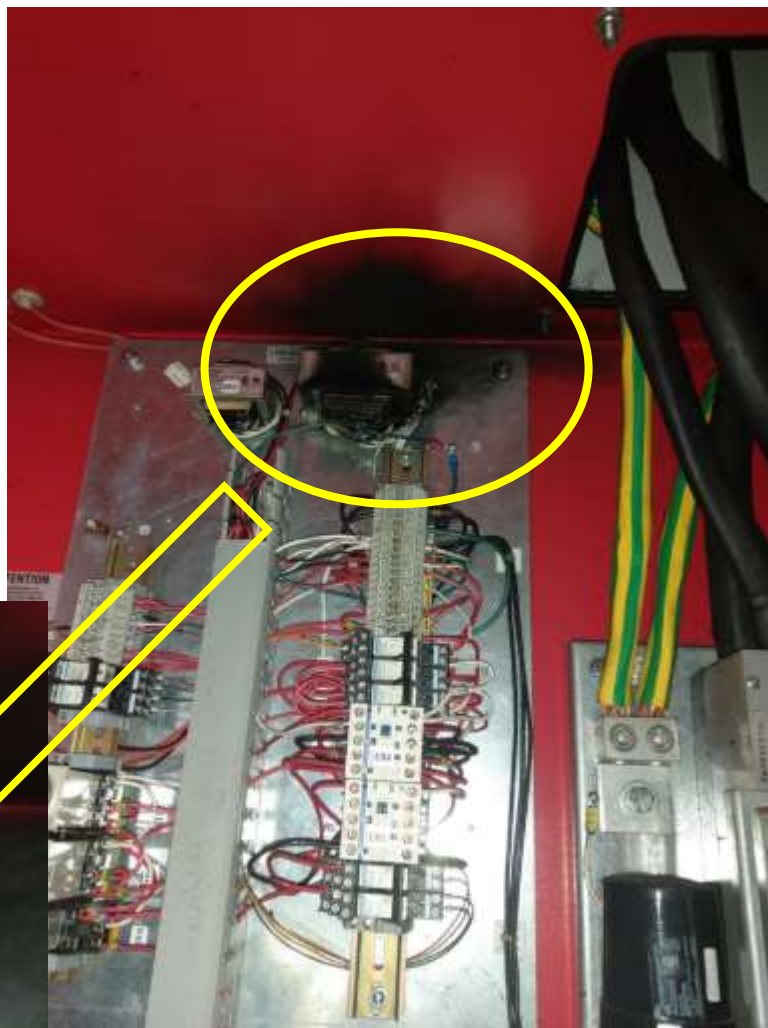
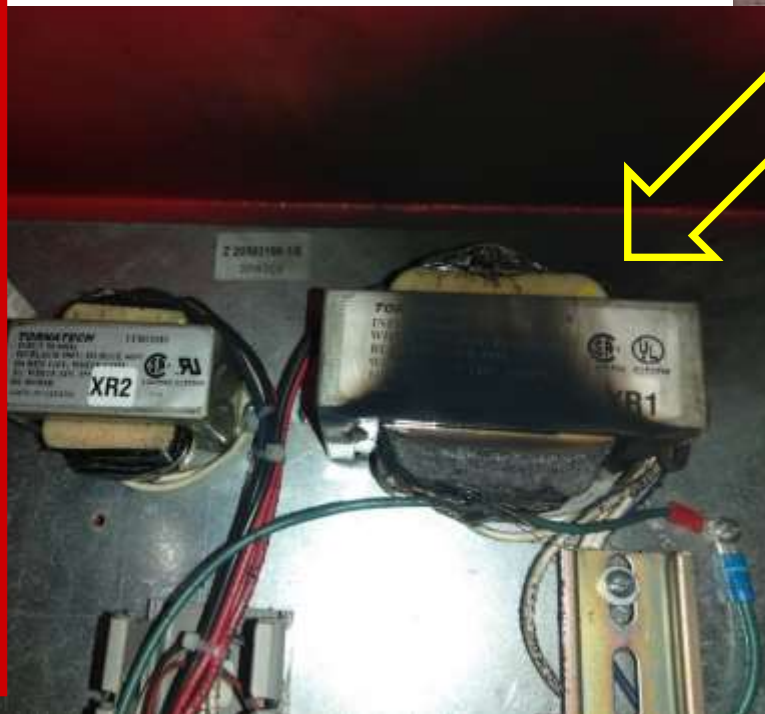
If you have any additional questions in relation to application of biodiesel within Clarke diesel fire pump drivers, please contact your local office or representative.

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www.clarkefire.com



Elektromos jellegű problémák



Elektromos jellegű problémák

Tervezés során:

- Szellőzés
- Hőmérséklet
- Égéstremék elvezetés
- Elektromos betáplálás

Kivitelezés /karbantartás során:

- Hűtőkör megfelelő csatlakozásának kiépítése
- Égéstermék elvezető rendszer megfelelő kiépítése
- Szerelés során gondosan járjunk el
- Gyártói előírásoknak megfelelő ellenőrzések, karbantartások (alkatrészek cseréje)

Üzemeltetés során:

- Csak arra használjuk a rendszert amire való....
- A rendszer üzemeltetéséhez szükséges ismeretek elsajátítása
- Üzemeltetői ellenőrzések, tesztek megfelelő végzése
- A sprinkler rendszerről érkező átjelzések megfelelő kezelése

A sprinkler szivattyúk csak manuálisan állíthatóak le!

