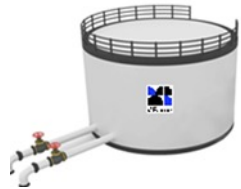


Applications



Treatment of producing wells by **DPF_PAN_TD** proved to be reliable, cost effective, safe and easy-to-use process for removal of asphalt-tar-paraffin-resin deposits (ATPD) from downhole pumping equipment and production pipes without stop of oil production.

Treatment to restore Well/Pump production;
Treatment to increase Downhole Equipment Run Life.



Treatment of oil tanks are cleaned with **DPF_PAN_TD** solution utilizing standard equipment. Cleaning is performed continuously, until desired results are obtained.



Treatment of marine vessels are cleaned with **DPF_PAN_TD** solution utilizing ship's standard equipment. Cleaning is performed continuously, until desired results are obtained. DECK, ACCOMMODATION, HULL, ENGINE ROOM, HOLDS, OIL SEPARATOR, PURIFIER, FUEL & OIL FILTERS, TANKS: HEAVY OIL, DIESEL, SLUDGE.



Treatment of industrial facilities by **DPF_PAN_TD** chemical proved to be reliable, safe and easy-to-use process for removal of oil-asphalt-tar-paraffin-resin deposits (ATPD) from facility equipment, gears, floor, walls and etc.



Oilfield Applications

Treatment to restore Well/Pump production

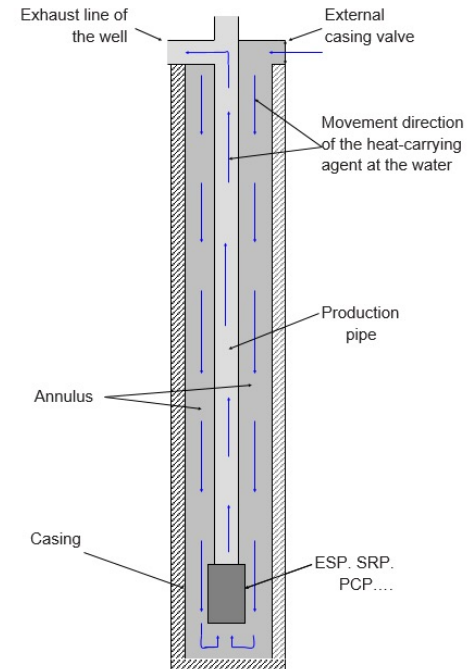
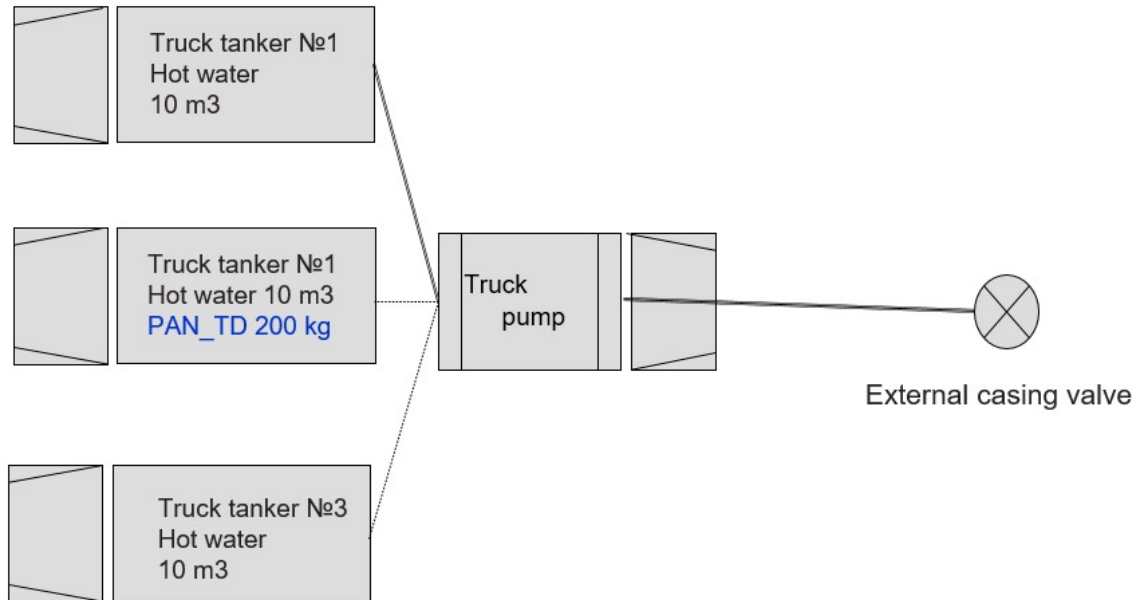
General principle of treatment:

Injection of hot **DPF_PAN_TD** solutions into the annulus.

The hot solution passes through running ESP (SRP, PSP or any other Artificial Lift) equipment;

Due to **DPF_PAN_TD** characteristics the crystallization paraffin and any fat and organic/oil deposits removed from the working surfaces.

This allows to clean interior passages of downhole equipment and restoring pump efficiency.





Oilfield Applications

DPF_PAN_TD well treatment to evaluate impact on ESP run life via a scheduled injection.

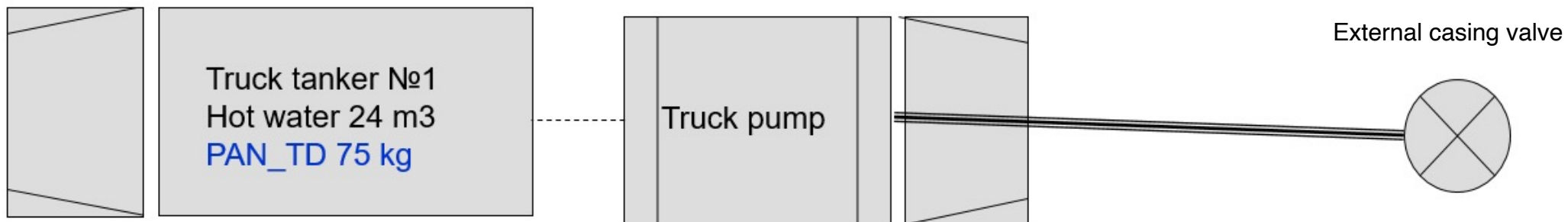
General principle of treatment:

Injection of hot water 24m³ + DPF_PAN_TD 75kg solutions into the annulus two times a month.

The hot solution passes through running ESP;

Due to DPF_PAN_TD characteristics the crystallization paraffin and any fat and organic/oil deposits removed from the working surfaces.

This allows to clean ESP stages from the sticky layer of sediments and prevent the adhesion of sand and solid particles, which, in turn, prevents wear of the equipment.





Treatment of oil tanks

DPF_PAN_TD is intended for removal of Paraffin and Asphaltene deposits as well as any other contaminants

that are found after storage or transportation of the petroleum products.

The oil tanks are cleaned with **DPF_PAN_TD** solution utilizing standard equipment. Cleaning is performed continuously, until desired results are obtained.

In perspective of **DPF_PAN_TD** application:

Motor oil, petrol, transformer oil, industrial oil

Usually have low levels of contamination (solution is 1kg per 100 liter of water)

Diesel, fuel oil, waste oil

Usually have regular levels of contamination (solution is 2kg per 100 liter of water).

Viscous heavy oil, crude oil, sludge

Usually have heavy levels of contamination (solution is 3kg per 100 liter of water).





Treatment of marine vessels

The marine vessels are cleaned with [DPF_PAN_TD](#) solution utilizing ship's standard equipment. Cleaning is performed continuously, until desired results are obtained.

In perspective of [DPF_PAN_TD](#) application:

Deck, accommodation, hull

Usually have low levels of contamination (solution is 1kg per 100 liter of water)

Engine room, holds

Usually have regular levels of contamination (solution is 2kg per 100 liter of water).

Tanks: heavy oil, diesel, sludge

Usually have heavy levels of contamination (solution is 3kg per 100 liter of water).

[DPF_PAN_TD](#) has high efficiency and convenience of cleaning the bottom desk of engine room with high density of various pipes and tubes.

It is recommended to use a high-pressure washer with integrated water heating to improve the efficiency of washing.

The surface will be completely degreased and ready for painting after washing by [DPF_PAN_TD](#).





Treatment of industrial facilities

Thermal-chemical treatment of industrial facilities by **DPF_PAN_TD** chemical proved to be reliable, safe and easy-to-use process for removal of **oil_asphalt_tar_paraffin_resin deposits (ATPD)** from facility equipment, gears, floor, walls and etc.

A very simple application procedure: **HOT WATER + PAN_TD + SURFACE TREATMENT + RINSE** allows using **DPF_PAN_TD** solution as part of the equipment repair process (preparation for repair, painting, etc.) and as an independent surface cleaning process.

