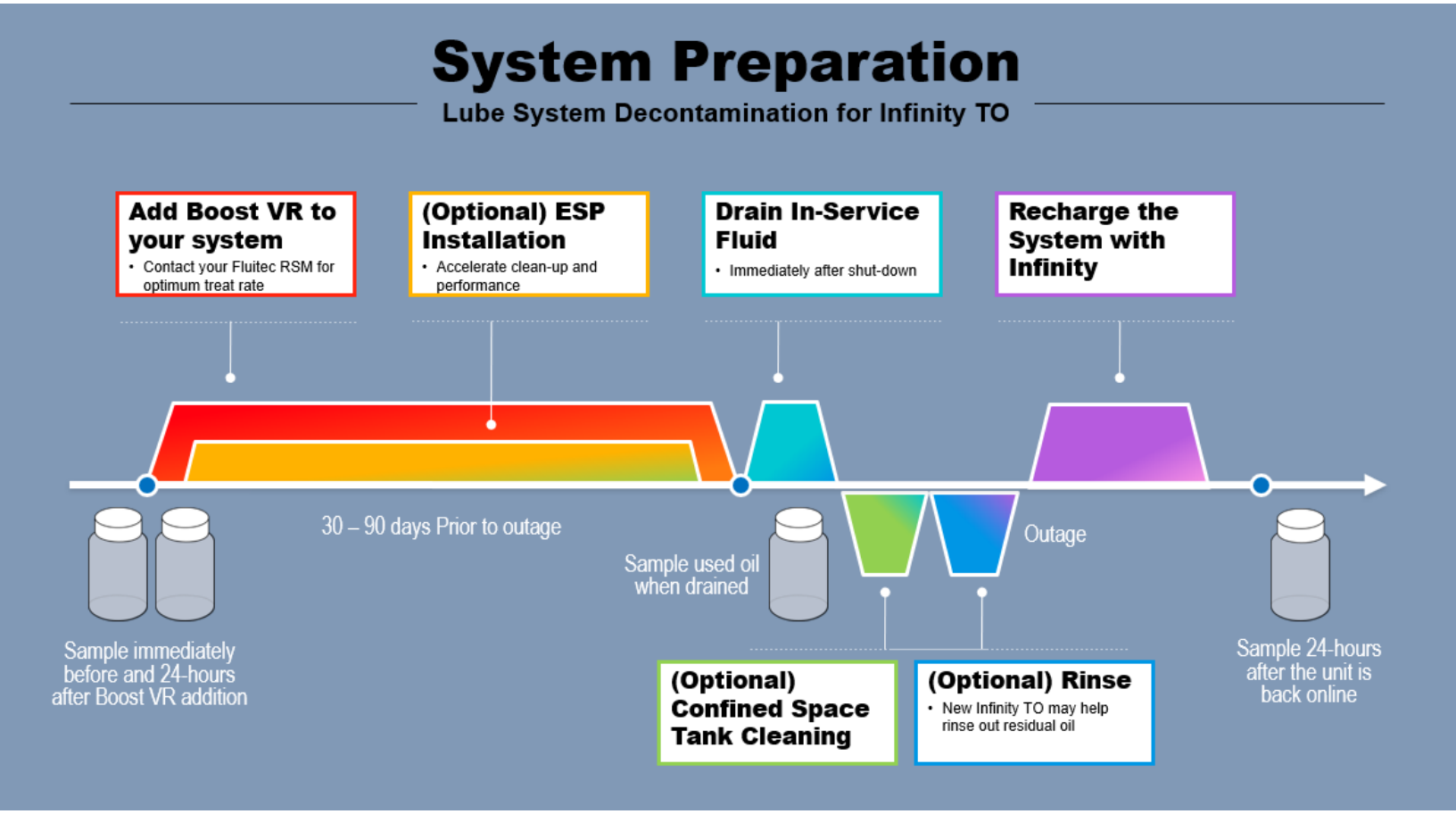
SERVICE INFORMATION LETTER:

INFINITY TO – SYSTEM PREPARATION

Infinity TO: System Decontamination and Preparation

Infinity TO is a premium turbine oil designed for long-life and deposit-free performance. In order to maximize its performance, the lube oil system should be decontaminated and drained of the previous charge of oil. The flow chart below summarizes the process.



Below are the recommended procedures in order to prepare a reservoir for a new filling of Infinity TO:

1. Add approximately 5% by volume of **Boost VR** to the in-service oil 1-3 months prior to the planned outage and oil change. Boost VR is compatible with API Groups I-4 base oils. Please contact your Fluitec RSM for additional instructions on shorter cleaning intervals.

2. Boost VR is immediatley miscible in the in-service oil, however we suggest a maximum flow rate of 5 gpm (19 lpm)when pumping this into the system.
    - It is important that the system is operating to facilitate rapid dissemination of Boost VR. Temperature is also a key factor with solubility enhancement. Boost VR works better at operating temperatures.

3. Oil analysis samples are suggested just prior to adding Boost VR and then again 24-hours after the addition of Boost VR. The MPC test (ASTM D7843) is an important parameter to monitor the performance of Boost VR, however other oil analysis tests may be conducted accordingly to ASTM D4378.

4. It is recommended to have on site an extra set of lube oil filters. Theoretically, dissolving deposits and varnishes may result in slowly releasing hard contaminants back into the oil. This is analogous to removing the glue in sand paper. In practice, it is uncommon to observe an increase in lube oil filter pressure as a result of adding Boost VR to an in-service oil, because the process happens slowly. We have seen a decrease in lube oil filter pressures however in cases where the filters are saturated with sludge and varnish.

5. The oil should be drained from the reservoir at the beginning of the outage while the fluid is still warm. All low points in the lube oil system should also be drained to evacuate as much fluid from the system as possible before the new oil is added.

6. If it is not possible to drain >98% of the old oil from the system, we encourage partially filling the reservoir with new Infinity TO to assist in rinsing out as much as the old fluid as possible.

7. Pre-filter Infinity TO into the reservoir.

8. After the system has been operational for 24-hours, obtain a representative sample and submit to Fluitec for analysis. Fluitec will verify that the oil in the system is >98% Infinity TO. The 10-year deposit control warranty will be issued.

10-Year Deposit Control Guarantee

Conditions to Guarantee

- System needs to be cleaned with Boost VR and emptied of >98% residual oil prior to charging with Infinity TO.
- Guarantee is void if a lubricant other than Infinity TO is added to the reservoir.
- Routine oil analysis according to ASTM D4378 must be completed throughout the guarantee term.
- MPC is guaranteed to be maintained at a maximum of 20 (MPC value ranges between 15-23 in commercial laboratories); provided that the Guarantee does not cover increase in MPC values that may be formed due to excessive lube oil contamination, formed to due thermal stresses beyond the operating design of equipment, or damage to the turbine which is not the result of the turbine oil
- If the MPC increases above 20 for three (3) consecutive months, Fluitec shall have an opportunity to correct the problem using Boost, ESP, etc.

Exclusive Remedy for Guarantee

IF FLUITEC IS NOT ABLE TO REDUCE THE MPC VALUE TO NORMAL VALUES AFTER WITHIN SIX (6) MONTHS, FLUITEC SHALL REPLACE THE TURBINE OIL AT NO COST TO YOU. THIS SHALL BE THE EXCLUSIVE REMEDY FOR THE GUARANTEE.