



07/27/2023- Fuel Accumulator leak

STATUS: Open

## BACKGROUND

- 8 issues notified from the OEMs for accumulator fitting leaks. All issues found in BIS

| Customer               | Level of Leak    | ESN      |
|------------------------|------------------|----------|
| 5 other OEMs           | Level 1, Level 5 |          |
| KENWORTH TRUCK COMPANY | Level 1          | 99105429 |
| KENWORTH TRUCK COMPANY | Level 1          | 99113281 |
| KENWORTH TRUCK COMPANY | Level 3          | 99105491 |

## FAULT CODE/FAIL MODE

- Leaks have been observed on the 1<sup>st</sup> accumulator fittings in all the 8 issues found until now.

## CURRENT STATE

- Supplier Leak Test(Retest)
  - 125 suspect fuel rails based on the manufacturing date. 4 out of 125 were released by supplier after retesting belonging to the same manufacturing date. 3 out of those 4 matched with the ones that were leaking at the OEM.
  - 4<sup>th</sup> accumulator failed at RMEP in the hot test for Crank Fuel Decay High(CFDH) fault.
  - Clean point was established - ESN 99121169
- Leaks found outside of the suspect list of 125
  - The 1<sup>st</sup> accumulator fittings are to be torqued to 175 NM as a part of step 3.
  - Proposed change is parented from India B fuel system FIRG #58525 in 2017

## ROOT CAUSE AND GOAL STATEMENT

- Assignable cause - Uneven loading at fitting-to-rail interface

## Completed

- Accumulator Inventory inhouse at RMEP has the 1<sup>st</sup> accumulator fittings torqued to 175NM (ESNF : 99143489).

## NEXT STEPS

- Engines which are at the OEMs before the clean point need to be touched by the techs to change the accumulator fitting torque to 175NM.
- Provide the work instructions for the onsite techs to rework the accumulator fittings to 175 NM.

