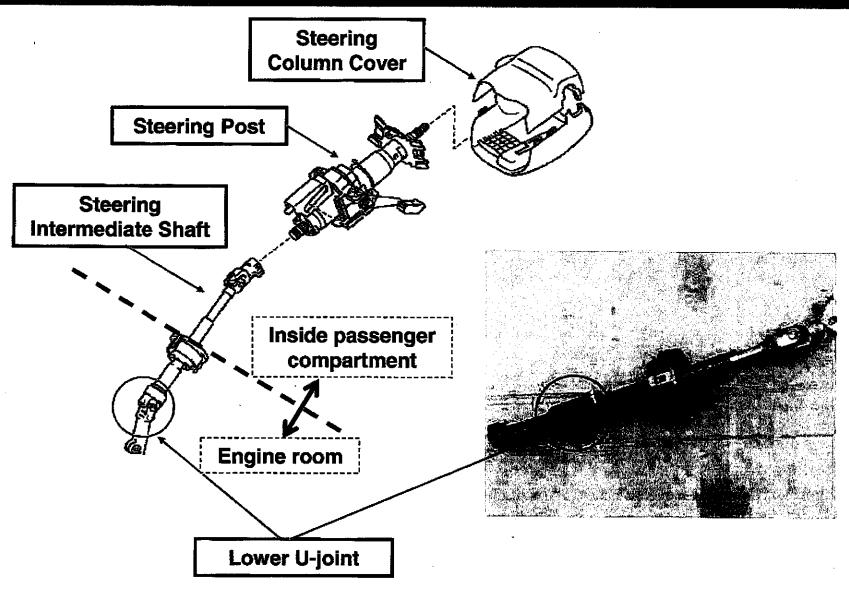
<u>Toyota Sienna</u> <u>Steering Intermediate Shaft</u>

October 14, 2008

Toyota Motor North America
Toyota Motor Corporation

Signification of the Shaft



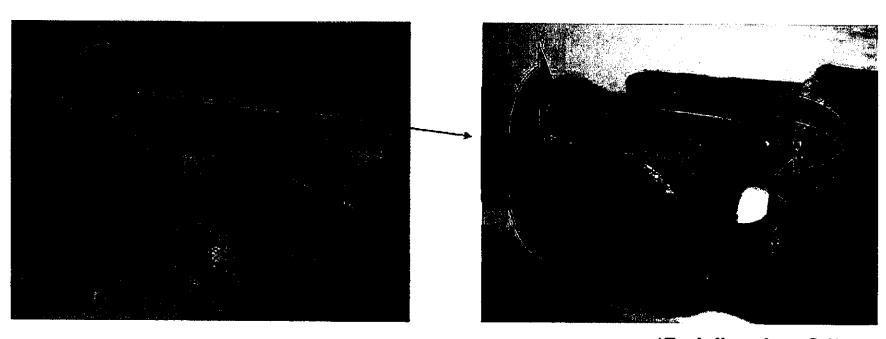
Phenomenon

Excerpt from 5 VOQs:

- >The steering would become very difficult and felt as if it was locking up.
- >A shaft in the power steering began to fail due to corrosion by road salt.
- >The steering suddenly felt like it was sticking during turns.

Excerpt from FTRs:

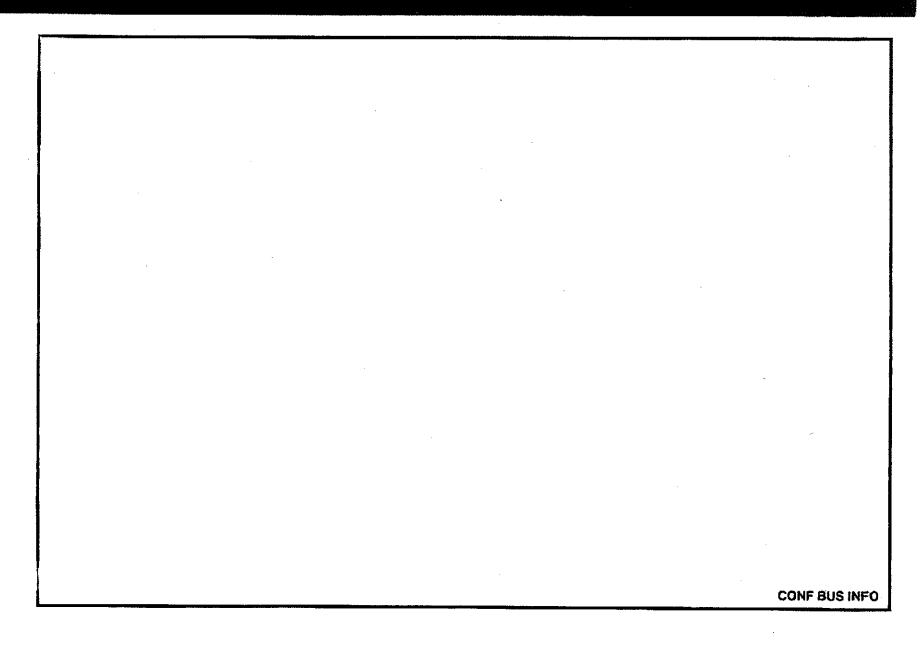
>Technician found one side of U-joint of steering shaft to be binding.



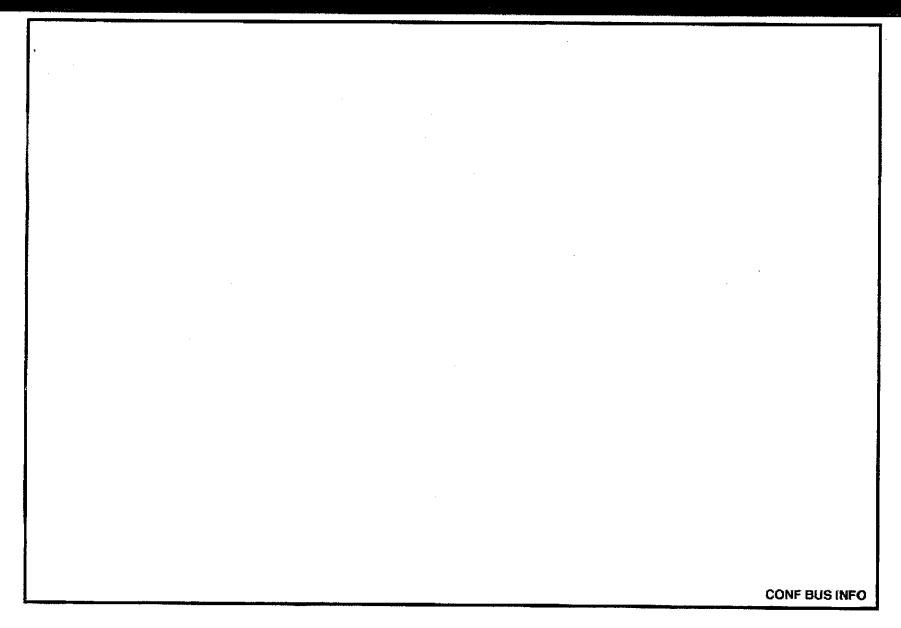
*Red direction: Stiff

Sieering Intermediate Shaft Lower U-joint

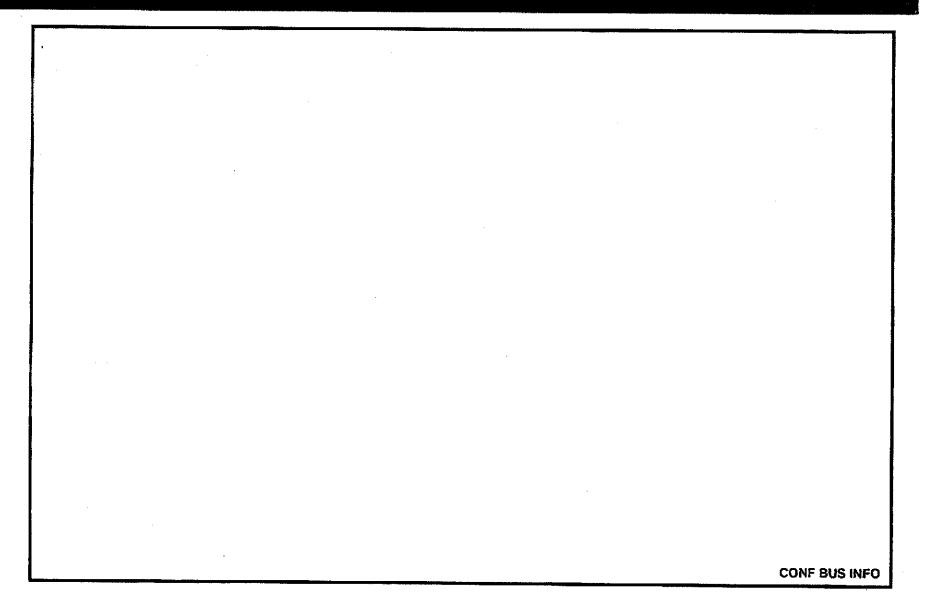
Disassembly Investigation Result of Readvered Fart



Machaniani



Countermeasure



NHTSA VOQ

>Of the 5 VOQ's, there are no crashes or injuries reported within.

Customer Complaints

1. Reports

- ➤ Number of reports: 73 cases (70 unique vehicles)
- ➤ Population before the production change: 550,000

Rate: 0.013% (=70/550,000)

2. Crashes

- ➤ Number of reports: 4
- ➤ It is highly unlikely that these reports are related to increased steering effort due to U-joint corrosion.
 - >Extremely low rate of occurrence of increased steering effort.
 - ➤No accidents due to corrosion of the lower U-joint.

Interned Investigation.

Parts Recovery

>Three Go and See Activities to evaluate and recover components

CONF BUS INFO

Investigation Result of Steering Effort

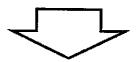
Investigation Fleath of Steering Effort

Investigation Result of Stearing Effort

Investigation Result of Steering Effort

Toyola's Assessment

- The issue occurs gradually and is noticeable to the operator well before the steering effort increases.
- >There are no crashes as a result of corrosion of the lower U-joint.
- ➤ Occurrence rate of increased steering effort is extremely low.
- Dealers are aware of the issue via our service bulletin, and the condition can be repaired properly.



Toyota believes:

- >Corrosion occurs gradually and is noticeable to the operator.
- >Steering effort remains reasonable as corrosion develops.
- ➤ There is no unreasonable risk to motor vehicle safety.
- >A safety-related defect does not exist in the steering system of the Sienna vehicles.