



Epam Systems, RD Dep.

DATA QUALITY

Introduction to Quality Assurance


Legal Notice:

This document contains privileged and/or confidential information and may not be disclosed, distributed or reproduced without the prior written permission of EPAM®.

CONFIDENTIAL

I chose this car part as a object to that , because recently I tested my cars shock absorbers in real life :)

In the result of testing I need to replace them , its didn't pass Smoke test.

Object name	Shock Absorber
Object description	A shock absorber is a suspension component in cars designed to smooth out shocks and vibrations from the road, providing a stable and comfortable ride.
Object picture	
Smoke tests	<ol style="list-style-type: none">1. Verify size, weight, diameter , ensure it's mounts suspension system2. Check that absorber compresses and returning3. Verify if any leaks or damages
Critical path tests	<ol style="list-style-type: none">1. Evaluate the shock absorber's ability to dampen vibrations and control spring oscillations on various road conditions.2. Test the shock absorber's performance under high temperatures, such as during prolonged driving or extreme weather conditions.3. Test the shock absorber's performance under maximum load conditions, such as when the vehicle is fully loaded.
Extended tests	<ol style="list-style-type: none">1. Measure the noise generated by the shock absorber during operation to ensure it meets comfort standards.2. Check the stability in sport mode3. Measure long service life ability