## MaintenanceRequestHelperTest.apxc:

```
@istest
public with sharing class MaintenanceRequestHelperTest {
private static final string STATUS_NEW = 'New';
private static final string WORKING = 'Working';
private static final string CLOSED = 'Closed';
private static final string REPAIR = 'Repair';
private static final string REQUEST_ORIGIN = 'Web';
private static final string REQUEST_TYPE = 'Routine Maintenance';
private static final string REQUEST_SUBJECT = 'Testing subject';
PRIVATE STATIC Vehicle_c createVehicle(){
Vehicle c Vehicle = new Vehicle C(name = 'SuperTruck');
return Vehicle;
PRIVATE STATIC Product2 createEq(){
product2 equipment = new product2(name = 'SuperEquipment',
lifespan_months_C = 10,
maintenance_cycle__C = 10,
replacement_part__c = true);
return equipment;
PRIVATE STATIC Case createMaintenanceRequest(id vehicleId, id
equipmentId){
case cs = new case(Type=REPAIR,
Status=STATUS NEW.
Origin=REQUEST_ORIGIN,
Subject=REQUEST SUBJECT,
Equipment_c=equipmentId,
Vehicle c=vehicleId);
return cs;
PRIVATE STATIC Equipment_Maintenance_Item__c createWorkPart(id
equipmentId,id requestId){
Equipment_Maintenance_Item__c wp = new
Equipment_Maintenance_Item__c(Equipment__c = equipmentId,
Maintenance Request c =
requestId);
return wp;
@istest
```

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private static void testMaintenanceRequestPositive(){
Vehicle c vehicle = createVehicle();
insert vehicle;
id vehicleId = vehicle.Id:
Product2 equipment = createEq();
insert equipment;
id equipmentId = equipment.Id;
case somethingToUpdate =
createMaintenanceRequest(vehicleId,equipmentId);
insert somethingToUpdate;
Equipment Maintenance Item c workP =
createWorkPart(equipmentId,somethingToUpdate.id);
insert workP;
test.startTest();
somethingToUpdate.status = CLOSED;
update somethingToUpdate;
test.stopTest();
Case newReq = [Select id, subject, type, Equipment_c,
Date_Reported__c, Vehicle__c, Date_Due__c
from case
where status =: STATUS_NEW];
Equipment_Maintenance_Item__c workPart = [select id
from Equipment Maintenance Item c
where Maintenance_Request__c
=:newReq.Id];
system.assert(workPart != null);
system.assert(newReq.Subject != null);
system.assertEquals(newReq.Type, REQUEST_TYPE);
SYSTEM.assertEquals(newReq.Equipment_c, equipmentId);
SYSTEM.assertEquals(newReq.Vehicle_c, vehicleId);
SYSTEM.assertEquals(newReq.Date_Reported__c, system.today());
@istest
private static void testMaintenanceRequestNegative(){
Vehicle__C vehicle = createVehicle();
insert vehicle:
id vehicleId = vehicle.Id;
product2 equipment = createEq();
insert equipment;
id equipmentId = equipment.Id;
case emptyReq =
createMaintenanceRequest(vehicleId,equipmentId);
```

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insert emptyReq;
Equipment Maintenance Item c workP =
createWorkPart(equipmentId, emptyReq.Id);
insert workP;
test.startTest():
emptyReq.Status = WORKING;
update emptyReq;
test.stopTest();
list<case> allRequest = [select id
from case];
Equipment_Maintenance_Item__c workPart = [select id
from Equipment Maintenance Item c
where Maintenance Request c =
:emptyReq.Id];
system.assert(workPart != null);
system.assert(allRequest.size() == 1);
@istest
private static void testMaintenanceRequestBulk(){
list<Vehicle__C> vehicleList = new list<Vehicle__C>();
list<Product2> equipmentList = new list<Product2>();
list<Equipment_Maintenance_Item__c> workPartList = new
list<Equipment Maintenance Item c>();
list<case> requestList = new list<case>();
list<id>oldRequestIds = new list<id>();
for(integer i = 0; i < 300; i++){
vehicleList.add(createVehicle());
equipmentList.add(createEq());
insert vehicleList;
insert equipmentList;
for(integer i = 0; i < 300; i++){
requestList.add(createMaintenanceRequest(vehicleList.get(i).id,
equipmentList.get(i).id));
insert requestList;
for(integer i = 0; i < 300; i++)
workPartList.add(createWorkPart(equipmentList.get(i).id,
requestList.get(i).id));
insert workPartList;
```

```
test.startTest();
for(case req : requestList){
req.Status = CLOSED;
oldRequestIds.add(req.Id);
}
update requestList;
test.stopTest();
list<case> allRequests = [select id

from case
where status =: STATUS_NEW];
list<Equipment_Maintenance_Item__c> workParts = [select id
from Equipment_Maintenance_Item__c
where Maintenance_Request__c in:
oldRequestIds];
system.assert(allRequests.size() == 300);
}
}
```