



Machinery Maintenance

This section describes the functionality of the Machineries Maintenance in ProjectVIEW

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1 Introduction

ProjectVIEW offers a variety of options regarding machinery maintenance. In order to properly use this feature, the setup explained below is required.

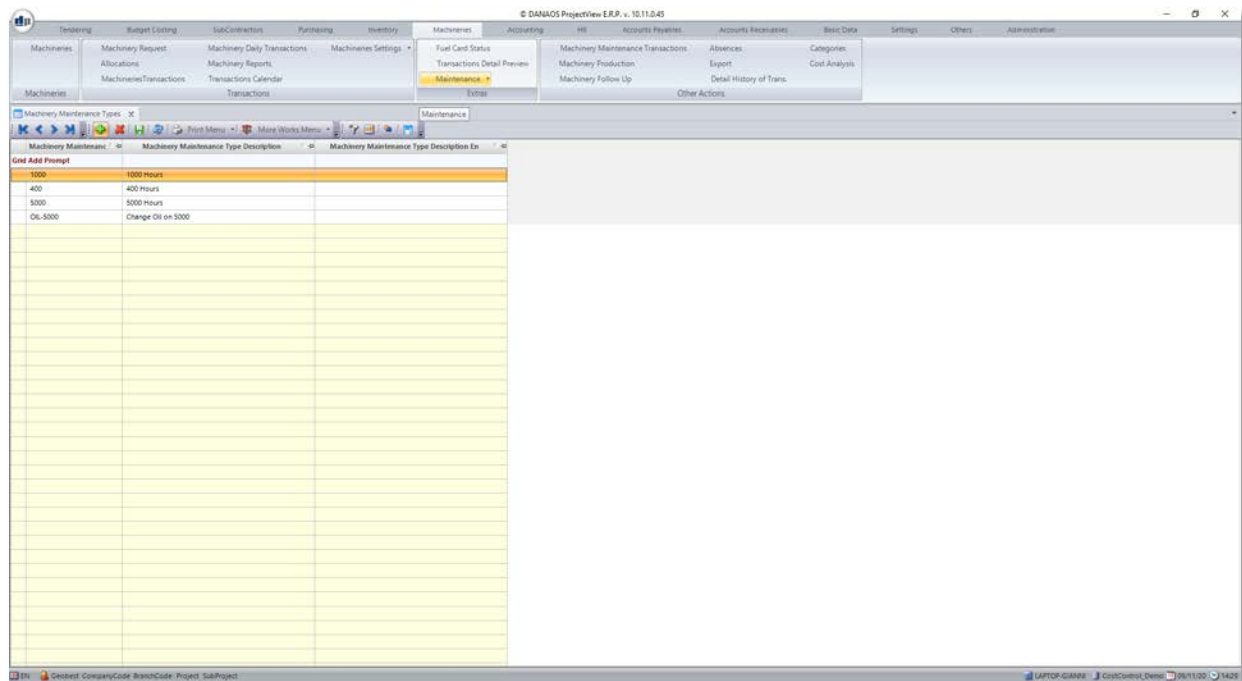
2 Maintenance setup

Before using the maintenance sub module, the information described in this chapter needs to be provided. This is mostly done at the initial setup of the system but can also be done or amended at a later stage.

2.1 Create Maintenance Types

To view a list of the machinery maintenance types, the user must navigate to:

“Machineries” > “Extras” > “Maintenance” > “Machinery Maintenance Types”

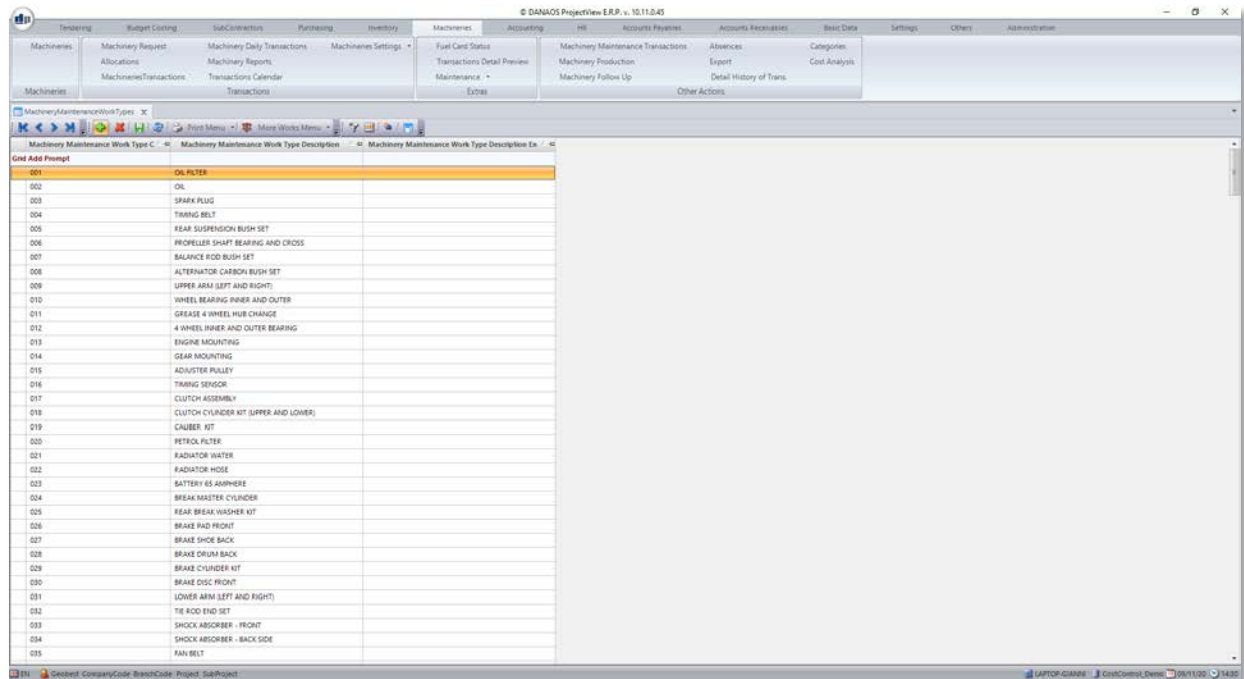


These are all the types of maintenance a machinery needs to undergo. These should be recurrent.

2.2 Create Maintenance Work Types

To view a list of the machinery maintenance work types, the user must navigate to:

“Machineries” > “Extras” > “Maintenance” > “Machinery Maintenance Work Types”



Every time a machinery undergoes a maintenance, a number of jobs need to take place. This grid lists all these.

2.3 Assign Machinery Types to Maintenance Types

At this stage, a list must be created with all the maintenance types each machinery type needs. To do so, the user must navigate to:

“Machineries” > “Extras” > “Maintenance” > “Machinery Maintenance By Machinery Types”

Machinery Type Code	Machinery Type Description	Machinery Maintenance Type Code	Machinery Maintenance Type Description	Hours/Kilometers	How many Hours/Kilometers earlier to inform	Comments
010	Concrete & Asphalt Paver	400	400 hours	400.00	50.00	
019	Cutting Machine	400	400 hours	400.00	50.00	
081	Truck	DL-5000	Change Oil on 5000	5,000.00	70.00	

Each line includes:

- ✓ The machinery type
- ✓ The maintenance type associated with that machinery type
- ✓ The Hour/Kilometer interval between each successive maintenance of this type
- ✓ How many Hours/Kilometers in advance should a notification be sent by the system

Each line has two identical buttons on the left:



The first one allows the user to assign spare parts to a maintenance type.

The second one allows the user to assign maintenance works to a maintenance type.

2.3.1 Assign spare parts

The screenshot shows the 'Machinery Spare Parts By Machinery Maintenance And Machinery Types' grid. The grid has the following columns: Machinery Type Code, Machinery Type Description, Machinery Maintenance Type Code, Machinery Maintenance Type Description, Item Code, Item Description, and Item Analytical Description. The data is as follows:

Machinery Type Code	Machinery Type Description	Machinery Maintenance Type Code	Machinery Maintenance Type Description	Item Code	Item Description	Item Analytical Description
211	compressor	400	400 Hours	929100	Advertisements and Invitations	
211	compressor	400	400 Hours	802115	Instructions to Bidders	
215	Concrete Pump	400	400 Hours	800105	Seals Rings	
219	Cutting Machine	400	400 Hours	12131819	oil intercooler 10 gpm	
219	Cutting Machine	400	400 Hours	127516	Oil High-Voltage Circuit Breaker	

Using this grid, the user can assign the spare parts needed for this specific maintenance type and machinery type.

2.3.2 Assign maintenance works

The screenshot shows the 'Machinery Maintenance Work By Machinery Maintenance And Machinery Types' grid. The grid has the following columns: Machinery Type Code, Machinery Type Description, Machinery Maintenance Type Code, Machinery Maintenance Type Description, Machinery Maintenance Work Code, Machinery Maintenance Work Description, and Machinery Maintenance Work Duration. The data is as follows:

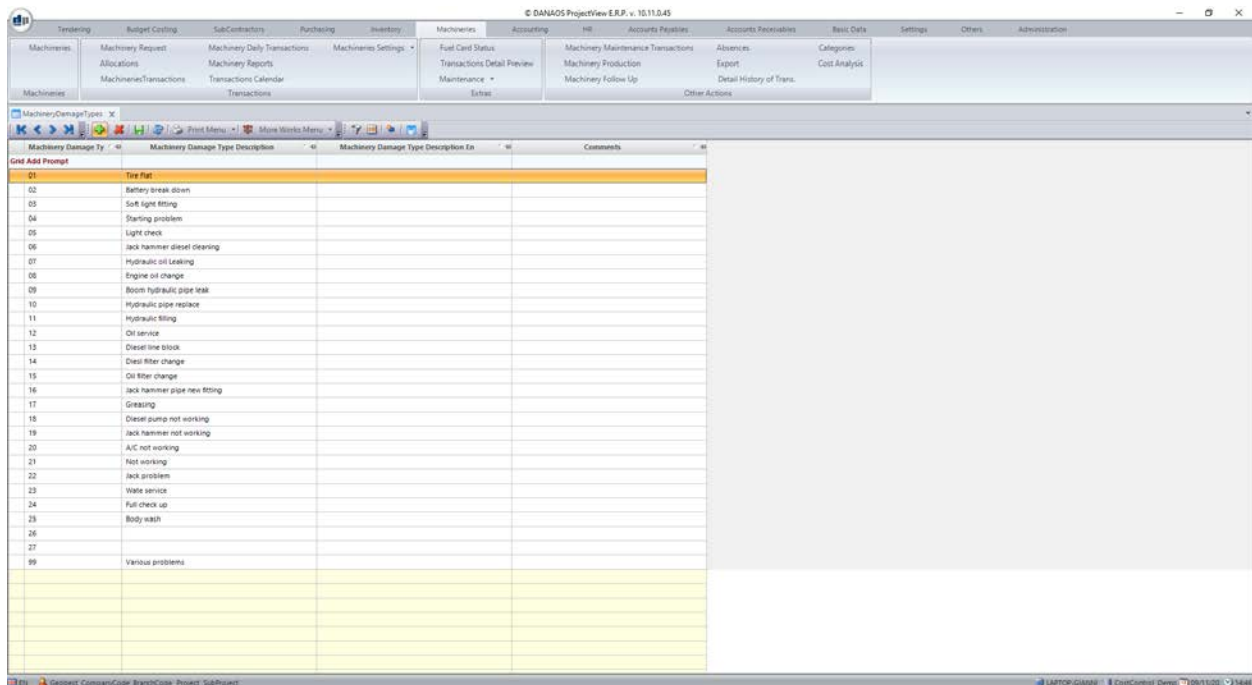
Machinery Type Code	Machinery Type Description	Machinery Maintenance Type Code	Machinery Maintenance Type Description	Machinery Maintenance Work Code	Machinery Maintenance Work Description	Machinery Maintenance Work Duration
215	Concrete Pump	400	400-hours	001	OIL FILTER	
215	Concrete Pump	400	400-hours	004	TIMING BELT	
219	Cutting Machine	400	400-hours	001	OIL FILTER	
219	Cutting Machine	400	400-hours	002	Oil	

Using this grid, the user can assign the maintenance works that need to take place during this specific maintenance type and for this machinery type.

2.4 Create Machinery Damage Types

To view a list of the machinery damage types, the user must navigate to:

“Machineries” > “Extras” > “Maintenance” > “Machinery Damage Types”



These are all the types of damage a machinery could face.

3 Maintenance Transactions

Machinery transactions are created every time a maintenance needs to take place.

To view a list of the maintenance transactions, the user must navigate to:

“Machineries” > “Other Actions” > “Machinery Maintenance Transactions”

Machinery Code	Machinery Description	Machinery Maintenance	Machinery Maintenance Type Description	Machinery Damage Ty	Machinery Damage Type Description	Date In	Date Out	Machinery Maintenan
26403				07	Hydraulic oil Leaking	18/11/14		
31810				04	Starting problem	01/04/15	08/04/15	
268979				12	Oil service	22/04/15	22/04/15	
75997				12	Oil service	22/04/15	22/04/15	
75661				12	Oil service	22/04/15	22/04/15	
138501				12	Oil service	22/04/15	22/04/15	
193287				12	Oil service	20/04/15	20/04/15	
193287				12	Oil service	20/04/15	20/04/15	
111591				12	Oil service	23/04/15	23/04/15	
159872				12	Oil service	28/04/15	28/04/15	
182619				12	Oil service	22/04/15		
159919				12	Oil service	22/03/15	22/03/15	
36450				99	Various problems	21/03/15	21/03/15	
30569				99	Various problems	11/03/15	11/03/15	
29924				12	Oil service	10/03/15	10/03/15	
30569				07	Hydraulic oil Leaking	09/03/15	09/03/15	
36399				99	Various problems	09/03/15	09/03/15	
36404				99	Various problems	07/03/15	07/03/15	
36399				99	Various problems	05/03/15	05/03/15	
30599				99	Various problems	02/03/15	02/03/15	
30893				12	Oil service	02/03/15	02/03/15	
30573				10	Hydraulic pipe replace	01/03/15	01/03/15	
29925				99	Various problems	26/02/15	26/02/15	
266980				12	Oil service	16/04/15	16/04/15	
182180				12	Oil service	16/04/15	16/04/15	

Editing or creating a new item will display the maintenance transaction form.

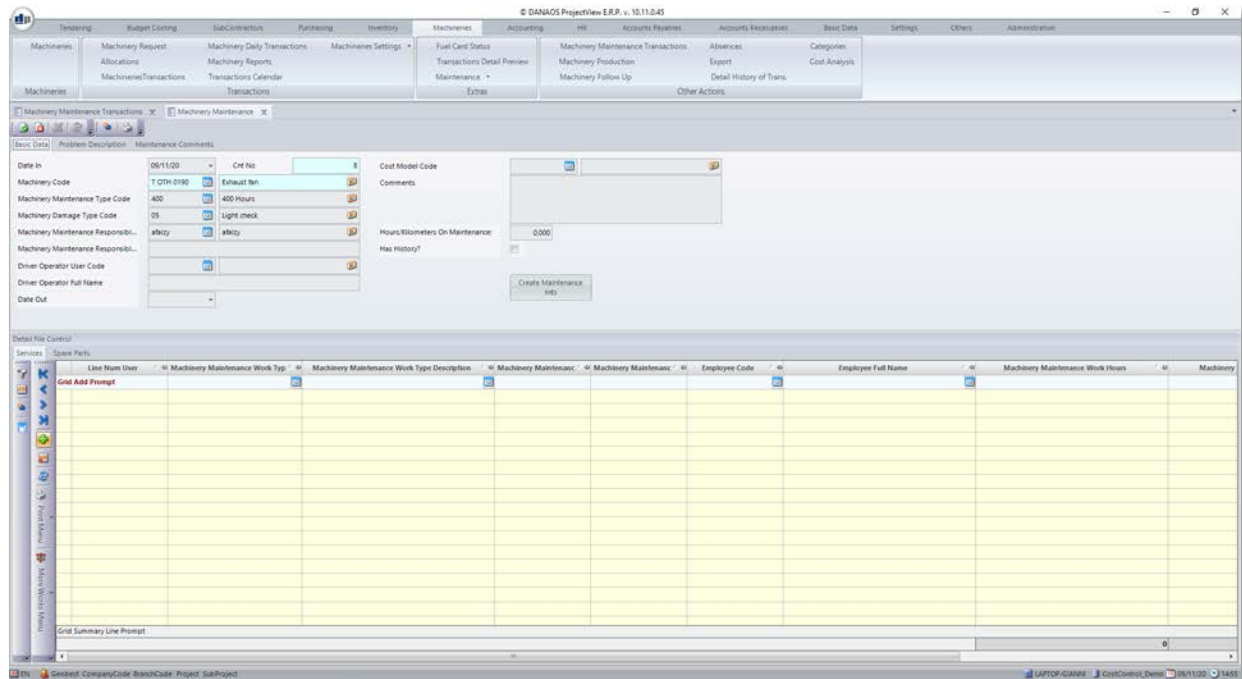
Note

Maintenance can take place for two reasons:

- ✓ Due to a scheduled maintenance
- ✓ To repair damage to a machinery

3.1 Create a maintenance transaction

This form is displayed when a new maintenance transaction is created or when an existing one is edited.



The mandatory fields are:

- ✓ Date In
- ✓ Machinery Code
- ✓ Machinery Maintenance Type Code (if this is a scheduled maintenance)
- ✓ Machinery Damage Type Code (if this is for a damage repair)

It is recommended that “Hours/Kilometers On Maintenance” should also be set, to log the actual hours/kilometers at the time of maintenance.

If needed, the problem description and maintenance comments can be added by using the relevant tabs.

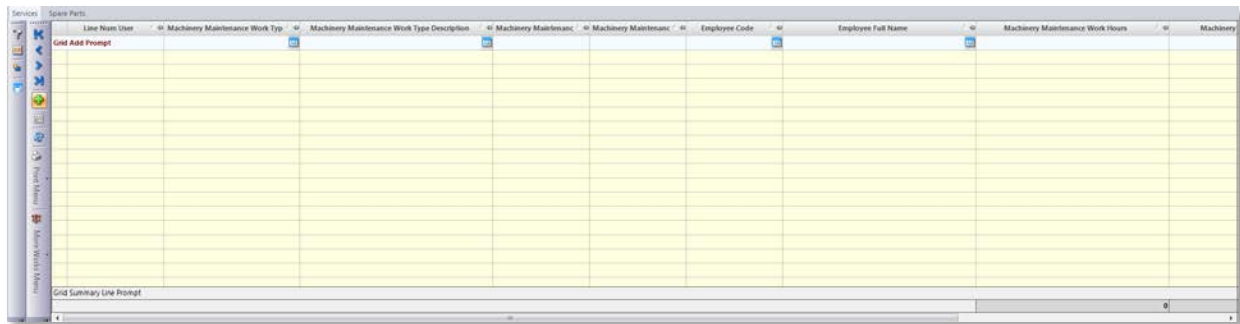
Having provided the above, the user must save.

3.2 Add maintenance works or spare parts

If this is a scheduled maintenance, the user can click on the “*Create Maintenance Info*” button. This will use the information in the system (See. Maintenance setup) to fill the grid with both the necessary works and spare parts needed. More works or spare parts can be added manually.

If this is for a damage repair, the works and spare parts must be entered manually.

To switch between maintenance works and spare parts, the user can use the grid tabs (found on top of the grid).



After any changes, the user must save.

3.3 Add PIC and date out

The final two steps are:

- ✓ Add the person responsible for the maintenance by using the “*Machinery Maintenance Responsible User Code*” field
- ✓ Add the date the maintenance ended by using the “*Date Out*” field.

After any changes, the user must save.

3.4 Maintenance request via Web

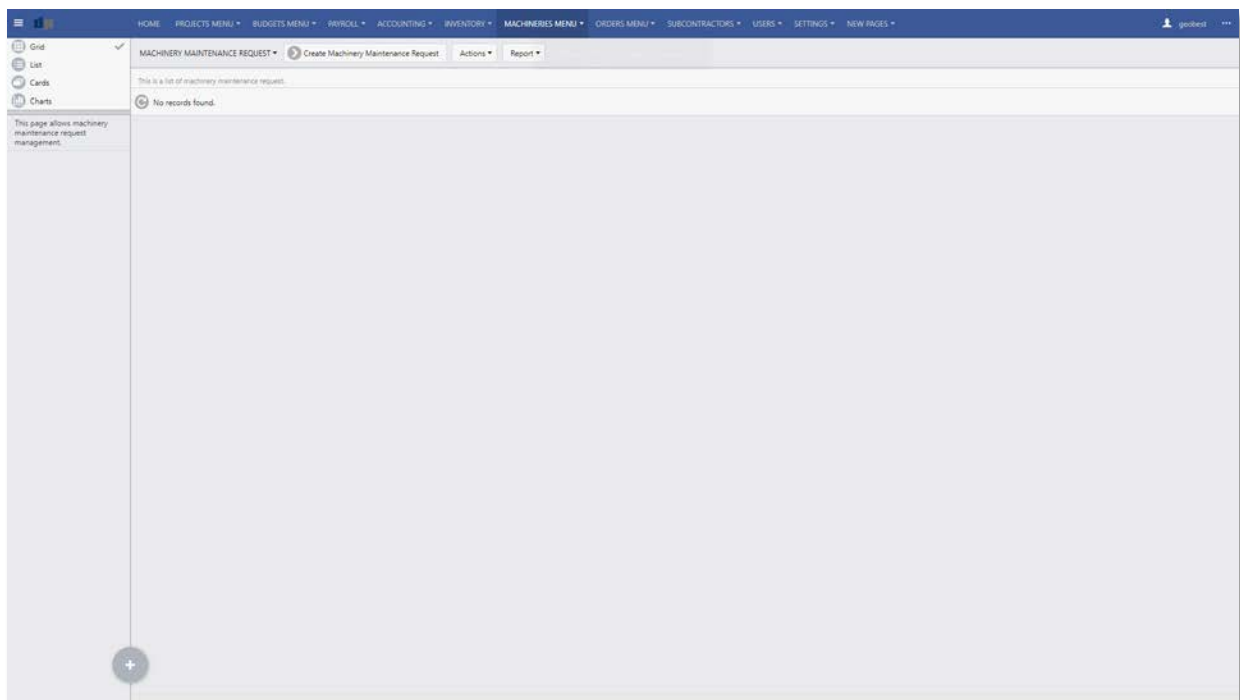
Everything that has been discussed so far is done through the desktop client version of ProjectVIEW. However, a user can create a maintenance request from the site as well using the web version of the system.

3.4.1 Create a machinery maintenance request

To create a maintenance request in the web version, the user has to navigate to:

“MACHINERIES MENU” > “Machinery Maintenance Request”

This will display a grid with all the maintenance requests:



Clicking on the “+” button on lower left part of the screen creates a new maintenance request.

Record

HOME PROJECTS MENU BUDGETS MENU PAYROLL ACCOUNTING INVENTORY MACHINERIES MENU ORDERS MENU SUBCONTRACTORS USERS SETTINGS NEW PAGES

New Machinery Maintenance Request

Please fill this form and click OK button to create a new machinery maintenance request record. Click Cancel to return to the previous screen.

OK CANCEL

NEW MACHINERY MAINTENANCE REQUEST

Complete the form. Make sure to enter all required fields.

T Date * 11/9/2020

Requester

Comments

OK CANCEL

The following fields are mandatory:

- ✓ T Date
- ✓ Requester

Having added the above, the user must click on the “OK” button.

3.4.2 Add machineries to the maintenance request

The next screen allows the user to add the machineries he wants or to edit the existing ones:

The screenshot displays the 'REVIEW MACHINERY MAINTENANCE REQUEST' interface. At the top, there is a navigation bar with various menu items. The main content area shows the request details for the date 11/9/2020. A sidebar on the left contains navigation options like 'Create Work Orders', 'New', 'Create Machinery Mainte...', 'Actions', 'Report', and 'Maintenance Reques...'. The main form includes fields for 'T Date' (11/9/2020) and 'Requester' (George). Below this, there are buttons for 'EDIT', 'DELETE', 'CLOSE', and 'CREATE WORK ORDERS'. A section titled 'MACHINERY MAINTENANCE REQUEST DETAIL' is visible, but it contains the text 'No records found'.

To add a new item, the user has to click on the “NEW” button, which will display the following form:

The screenshot shows the 'New Machinery Maintenance Request Detail' form. The title bar indicates the date 11/9/2020. The form is titled 'NEW MACHINERY MAINTENANCE REQUEST DETAIL'. It contains a list of input fields with labels: 'Machinery *', 'Machinery Type', 'Machinery Maintenance Type *', 'Last Maintenance Kilometers', 'Next Maintenance Kilometers', 'Current Kilometers', 'Last Maintenance Hours', 'Next Maintenance Hours', 'Current Hours', 'Schedule Date', 'Delay Until Date', and 'Work Order'. There are 'OK' and 'CANCEL' buttons at the top right and bottom right of the form area.

The mandatory fields are the following:

- ✓ Machinery
- ✓ Machinery Maintenance Type

Having done the above, the user must click the “OK” button.

The desktop client version will automatically sync with the web one and the users will now be able to review the maintenance request in the system.

4 Appendix – Machinery Settings

There are various fields in the machineries, which use predefined codes. These are:

- ✓ Garages
- ✓ Machinery Expenses Types
- ✓ Car Traffic Licenses
- ✓ Car Technical Check
- ✓ Machinery Types
- ✓ Machinery Status
- ✓ Machinery Locations
- ✓ Gearbox Types
- ✓ Capacity Types
- ✓ Fuel Types
- ✓ Lubricant Types
- ✓ Fuel Card
- ✓ Fuel Card Usage Types
- ✓ Car Insurance Types
- ✓ Machinery Analytical Characteristics

To view/add/edit the above, the user has to navigate to:

“Machineries” > “Transactions” > “Machinery Settings” > ...

and then choose the appropriate item from the list.



In case of any queries or support issues, please
contact us:

DANAOS Projects Software Solutions

Tamani Head Office - Office 1923

Business Bay

Dubai - UAE, P.O. Box 24051

Email: support@danaos-projects.com

Tel: +971 4 8714149