



# LUBExpert Practical Exercise



## Instructions

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# Introduction

## LUBExpert Exercises Explained

This carefully planned out exercise is intended to help our Sales Channel learn how to use SDT LUBExpert with the new (2021-2022) features in UAS3 Software. But the exercise can also be used – once you’ve mastered it – to train your LUBExpert customers in a controlled classroom setting. The three tasks are designed to recreate some of the real-world problems you may face. There are a few tricks and traps set here so watch carefully. We did not put them there to make you look bad, but instead to make you think and become a problem solver.

## Things You Need

To complete this task independently you will need:

- A LUBExpert System with the most currently available version of firmware installed.
- A licensed and up to date version of UAS3 installed on your PC.
- A RAPSody Box with the most recent version of firmware installed.
- The most recent version of RAPSody Box software installed on your PC.

For software support please contact Jim Pallister ([jim.pallister@sdtultrasound.com](mailto:jim.pallister@sdtultrasound.com)).

For our Dealer Training Sessions, it will be beneficial to have at least UAS3 and your LUBExpert System. If you do not have access to RAPSody Box, you can follow along with the instructor.

Good luck, don’t stress, have fun, engage, ask lots of questions.

# Task 1

## Create Two Alarms

Open UAS3 and create two new alarms. Name the first alarm “Test 1” and the second alarm “Test 2” and set the following alarm parameters:

### Test 1: Absolute Alarm

- Alert: 44 dB $\mu$ V
- Warning: 56 dB $\mu$ V
- Danger: 62 dB $\mu$ V

### Test 2: Absolute Alarm

- Alert: 52 dB $\mu$ V
- Warning: 60 dB $\mu$ V
- Danger: 66 dB $\mu$ V

## Edit Lube Database

Next, edit your lube database by adding the following lubricants to your UAS3 LUBExpert Lube Database:

- Saphire 2
- PolySupreme
- Thermax
- MobyLux EP2

## Edit Grease Gun Database

And now, you are to add the following colour coded grease guns to your UAS3 LUBExpert Database:

- BLUE – output 1g/shot
- BLACK – output 2g/shot
- GREEN – output 3g/shot
- RED – output 4g/shot

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## Create a New Tree Structure

The next step is to create a new tree structure called “SDT Training Lube” where you will then add the imaginary assets listed in Step 5.

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## Add Assets

In your new tree structure “SDT Training Lube” you now must enter some imaginary assets based on the hierarchical tree structure. To keep it simple we will not use all \_\_\_ nodes of the UAS3 tree.

### Zone 1

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- Group 1
  - Asset 1
  - Asset 2
- Group 2
  - Asset 3
  - Asset 4

### Zone 2

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- Group 3
  - Asset 5
  - Asset 6
- Group 4
  - Asset 7
  - Asset 8

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## Task 2

### Add Measurement Points

Now that you have created a basic tree of assets located in Zones 1 and 2 it is time to add some LUBExpert measurement points. For each of the Assets in your tree attach the following measurement data:

#### Asset 1

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- Interval: 45 days
- Grease: MobyLux EP2
- Grease Gun: RED
- Bearing: 6928
- Rotating speed: 1485 RPM

#### Asset 2

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- Interval: 45 days
- Grease: MobyLux EP2
- Grease Gun: RED
- Bearing: 6326
- Rotating speed: 980 RPM

#### Asset 3

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- Interval: 45 days
- Grease: Sapphire 2
- Grease Gun: GREEN
- Bearing: 6820
- Rotating speed: 1485 RPM

#### Asset 4

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- Interval: 45 days
- Grease: Sapphire 2
- Grease Gun: GREEN
- Bearing: 6814
- Rotating speed: 2975 RPM

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**Asset 5**

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- Interval: 60 days
- Grease: Thermax
- Grease Gun: BLACK
- Bearing: 6318
- Rotating speed: 2975 RPM

**Asset 6**

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- Interval: 60 days
- Grease: Thermax
- Grease Gun: BLACK
- Bearing: 6407
- Rotating speed: 2975 RPM

**Asset 7**

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- Interval: 60 days
- Grease: Thermax
- Grease Gun: BLACK
- Bearing: NOT KNOWN
  - (Approximately 80x50x18mm), usual qty 12g
- Rotating speed: 2975 RPM

**Asset 8**

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- Interval: 60 days
- Grease: Thermax
- Grease Gun: BLACK
- Bearing: NOT KNOWN
  - (Approximately 120x50x30mm), usual qty 20g
- Rotating speed: 2975 RPM

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## Assign Alarms

Now you must attach the alarms defined in Task 1 as follows. Try using filtered searches to create unique lookups:

Asset 1: ALARM: Test 1

Asset 2: ALARM: Test 2

Asset 3: ALARM: Test 1

Asset 4: ALARM: Test 2

Asset 5: ALARM: Test 1

Asset 6: ALARM: Test 2

Asset 7: ALARM: NONE

Asset 8: ALARM: NONE

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| Notes: |
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## Create Work Orders

Your LUBExpert database is now set up and you are ready to grease bearings right. But before you can go into the plant you need some work orders. Create the following five (5) work orders:

1. "Entire Task" – ZONE 1 & ZONE 2
2. "ZONE 1 Task" – ZONE 1 only
3. "ZONE 2 Task" – ZONE 2 only
4. "Group 1" – Group 1
5. "Group 4" – Group 4

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| Notes: |
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## Create Your Shopping List

Before heading into the factory to grease bearings you need some supplies. UAS3 provides a Shopping List with all the grease guns and lubricants required to complete the days tasks. The next task is to create the list that can either be emailed to yourself, your storeroom, or printed.

## Transfer Data to LUBExpert

## Connect Your RAPsody Box



## Task 3

### Go Grease Your Bearings Right

On your LUBExpert system choose work order “Entire Task” and complete each of the following twelve tasks. Use the space to make notes.

1. Asset 1 is not in operation.

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2. Asset 2, coupling cover removed, not safe.

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3. Asset 3, choose sequence “Lube Not Needed” in your RAPSody Box and follow the recommendations.

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4. Asset 3, choose sequence “Overlubrication 1” in your RAPSody Box and ignore the recommendation (add grease in Free Mode).

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5. Asset 2, choose sequence “Lubrication Success 1” in your RAPSody Box and follow the recommendation in Guided Mode.

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6. Asset 4, choose “Suspected Bearing Failure 1” in your RAPSody Box and follow recommendations in Guided Mode.

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7. Asset 4, choose sequence “Lubrication Success – Shorten Interval” in your RAPSody Box and follow recommendations in Guided Mode.

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8. Asset 5, choose sequence “Lubrication Needed Success” in your RAPSody Box and follow recommendations in Free Mode.

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| Notes: |
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9. Asset 6, choose sequence “Lubrication Needed Failure” in your RAPSody Box and follow recommendations in Guided Mode.

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10. Asset 6, choose sequence “Lubrifications Success 2 in your RAPSody Box, follow recommendations in Guided Mode and “pretend” you feel a lot of back pressure immediately when you start to lubricate.

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