QUICK START GUIDE



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### I. BEFORE YOU BEGIN

Please check that your kit contains the following items:

- OQSxG2 Oil Quality Sensor
   MOT Kit bottle adaptor (with red fibre washer/seal)
- Sensor to PC power and data cable (Cable J)
- USB stick (containing MOT software)
- 5 x Reusable sample bottles

## 2. SOFTWARE INSTALLATION



**Step I:** Take everything out of the case and plug the USB stick into your PC/laptop. (Please make sure you are running Windows 10 or above and have administrator privileges.)

**Step 2:** To start the installation, double-click on the SetupMOT. exe file. The pop-up window (right) will appear. Follow the instructions to complete the set up.

**Step 3:** Upon first launch of the software, the End User Licence Agreement will pop up. Please click 'Accept' to proceed.

**Step 4:** Complete the Device Driver Installation Wizard and restart your system when prompted.



### e Agreement (EULA)

oftware User Agreement

#### nportant - please read carefully before use of the Software

Your use of this computer program is subject to the terms and conditions of the following Software Use Agreement. If you do not wish to accept these terms and conditions, do not install or use this Software and please return this Software to the place you obtained it for refund.

#### License agreement, restrictions on use

Decline

Use

This is a litense agreemet between you (the entity to whom this software is provided) and Tao DeBA Systems ("Licensor"). This agreement permits you to Use each program furnished directly or indirectly from Licensor, either by Licensor is authorized distributors ("Distributors") michaling and Copies Entered and any upporting materials and any related updated programs or program portions ("Software"). The term "Copies" means any diplication, reproductions, macrophone and any softwares, either in whole or in part and by any means whole-environs, mechanical, and manual processes. The term "Use" means copying any portion of any Software or using any Software. Lot only in concetton with the analysis, specification, use installation, repair, sile of products through Licensor or its Distributors.

#### 3. CLEAN SENSOR AND BOTTLE



For accurate results, it is vitally important to perform any test using a clean sensor and sample bottle. Any oil residue from a previous test MUST be removed.

**Step I:** TO CLEAN THE SENSOR, wipe excess oil using absorbent material. Next, spray solvent cleaner into each of the four holes around the sensor tip, and into the main bore. Our recommended cleaner is Loctite 7063. If unavailable, please contact Support for a suitable alternative. Finally, give the outer surface a quick spray. Give a sharp shake to remove any excess and allow to dry for at least 1 minute.

**Step 2:** TO CLEAN A SAMPLE BOTTLE, wipe excess oil using absorbent material. Next, spray solvent cleaner all around the inside of the bottle. Give a sharp shake to remove any excess and allow to dry for at least 1 minute.



Accept

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### 4. TAKE A SAMPLE

**Step I:** Screw the bottle adapter to the sensor and then connect the blue Bulgin connector on the configuration cable to the sensor.



**Step 2:** Check red fibre washer/seal is in place in the bottle adaptor. Pour your oil sample into a clean sample bottle and screw onto the bottle adapter. Agitate for a few seconds and invert the whole assembly.

**Note:** Sensor nose must be completely submerged in oil for accurate results.

#### 5. RUN NEW TEST

**Step I:** Start the MOT software. After a few seconds the home screen of the MOT software will appear (shown below). Click on New Test to begin.





**Step 2:** Plug in the USB end of the Config Cable into your PC/laptop. The COM port you are connected to will appear under Cable Names.

The sensor serial number will appear under Device Names. Click Next

**Step 3:** Enter the Asset Details for the asset the oil has come from. Click Next.



Step 4: Select your oil from the database, and click Next.

New Test	Oil Details					
Saved Tests		ults, please select the oil you	ı will be usi	ng this sens	or with bel	ow.
Settings	Search Oil Data	base				٩
? Help					Can'	t find your profile? 🛃
App: v5.12.36.4 Oli Database: v5.276	Manufacturer 🗘	Oil Name 🜩	Viscosity 🖨	Application	Min Temp	Max Temp 🖨
	Akkcela	SBL CJ4	15W40	Engine	-13.0°F	257.0°F
	CAT	DEO ULS	15W40	Engine	-13.0°F	257.0°F
	Chevron	Caltex Delo Gold Ultra	15W40	Engine	-13.0°F	257.0°F
	Chevron	Delo 400 Multigrade	15W40	Engine	-13.0°F	257.0°F
	Chevron	Ursa Super Plus	15W40	Engine	-13.0°F	257.0°F
	Idemitsu	K)IKC13FE-GMPT-DE06 (Diesel)	0W20	Engine	-13.0°F	257.0°F
	Idemitsu	KJIKC13FE-GMPT-DE06	0W20	Engine	-13.0°F	257.0°F
	LIQUIDADA	econol a colo monte	ruu a	Contra .	13.007	202.00

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### 5. RUN NEW TEST (continued)

Step 5: Carry out a visual check by selecting the image that most closely resembles state of the oil sample. Click next.



**Step 6:** Confirm the details entered are correct, edit if necessary. Click 'Run Test' to begin the analysis.

Nobile Oil Test Kit - Tan Delta !	Systems			>
< Mobile Oil Test Kit	Locate Asset Details	Oil Details	Visual Check 5	Confirm 6 Test
New Test	Confirm Details			
Saved Tests	Clean Sensor before	testing		
Settings			lvent-based cleaner prior to te	
? Help	sample bottle should be use	d for each sample. R	lefer to the user guide for furth	ier details.
App: v2.12.36.4 Oil Database: v5.276	ASSET DETAILS	Edit >	OIL DETAILS Manufacturer	Edit >
	New Asset Name		CAT	
	Asset Description		Oil Name	
	New Asset Description		DEO ULS	
	Application		Viscosity	
	Engine		15W40	
	Hours		Visual Inspection Dark	
	SamplePoint		Serial Number	
	1		1022148	
TANDELTA	< Back			Run Test 💙
Oil Condition Monitoring				

Step 7: Your oil will now be analysed. The results and

recommendations are shown on the Test Result screen. Under the Actions menu, you can repeat or discard the test. You can also export the test data to a TSV, PDF, or copy the test data to clipboard which will allow it to be pasted into various programs, e.g. Excel.

Step 8: On the Test Result screen, you can switch between viewing the data as a graph or in table form. The graph will display the historic trend of any saved tests, which have a matching Asset ID, Sample Point, and Oil Name.

03/05/2023

04/05/2023

Graph 🖽

Visual Condition OKAY

> 🕑 ОКАҮ ALERT

Test ID: 2023-05-04T13:04:26		Actions	Actions V HISTORIC TREND					1 Month
		Repeat Test Export to TSV	2 •	1200 TDN 1100 TDN				
		Copy to Clipboar		1000 TDN -				
TEST RESULT		Export to PDF		900 TDN -				
Oil Condition	_	Discard Test		(NGU TDN - 100 TDN - 100 TDN - 100 TDN - 100 TDN - 100 TDN -				
ΟΚΑΥ	935 TDN	I						
Remaining Useful Life 100% OKAY	Visual Indication Cloudy/Hazy CAUTION			100 TDN - 0 TDN -	28/04/2023 29/04/20:	23 30/04/2023	01/05/2023 Date	02/05/2023
					TREND			1 Month
				Date	Time	Oil Condition	Remain	ning Useful Life
SUMMARY				27/04/2023	14:42	874.7TDN 📀		96%
OBSERVATION Good Your oil condition is looking OK.	RECOMMENDATION Good To keep performing regular che	ecks to ensure vour		27/04/2023	14:48	934.9TDN 📀		100%
	equipment remains in top conditio			04/05/2023	12:29	1,261.8TDN 🔺		100%

Table 🖽

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### SUPPORT – FAQ

If you have any issues, please read the tips below before contacting us for further support.

#### I. Where are the Cable J drivers?

The drivers for Cable J should install automatically; however, if they do not, the latest drivers are on the USB stick.

2. Test result does not follow expected trend. Can I sanity check the result?

Check correct oil was selected when setting up the test. The sensor may need cleaning. Leave it immersed in solvent for 5 minutes, rinsing in de-ionised water and then allowing it to dry thoroughly. If the test result is the same or very similar to before, then it is an accurate result.

#### 3. How do I update the software?

Software updates will happen automatically. You will be prompted to accept when one is available. If you are provided an installer by Tan Delta, please uninstall any previous versions of software before installing the new one.

#### 4. How do I remove the software?

Simply go into your control panel and remove the software.ded using the built in WiFi interface. Simple and easy for any equipment, application and oil type, with huge operational and financial benefits.





You can find further information in the Master User Guide on the support page of our website. If you have any further questions, please contact our support team by email: support@tandeltasystems.com who will answer no later than the next working day.

Alternatively, refer to Master User Guide available at: www.tandeltasystems.com/support