

GUIDELINES:

Instructions for use of the FUELSTAT[®] Result App

Helps with both the interpretation of FUELSTAT® tests and the collection of data in an easy-to-use format. The app provides digital verification of test results without paper, reducing the risk of incorrect interpretation, as well as central storage of data for compliance and possible trend analysis.

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Background

FUELSTAT[®] *Result* is a smartphone-based app on iOS and Android that helps with both the interpretation of FUELSTAT[®] tests and the collection of data in an easy-to-use format. This app can now be used with both FUELSTAT[®] *Plus* and FUELSTAT[®] *One* test kits.

Link to Instructional FUELSTAT® test instructions: click here



FUELSTAT® Result v FUELSTAT® Result Lite



- 1. FUELSTAT[®] Result: Organisations can register and provide their users a unique login that gives *FREE* access to the portal to analyse all their results from a central database.
- 2. FUELSTAT[®] Result Lite: Individual users can use the app for *FREE without prior registration*, just download to your device and start using immediately to verify your test result.
- 3. All features of the app are available for registered and Lite users.

Download and install the FUELSTAT® Result app

The app can be downloaded here:





https://conidia.com/fuel-testing-kits/fuelstat-result-app/#register

The FUELSTAT[®] app is designed to work on the following models: iPhone 6 onwards, iPad Pro, Samsung Galaxy 6 onwards.

The app has also been used successfully by most other modern brands and models of smartphones and tablets running on an Android platform, so long as the camera uses a similar API and that they have an LED flash that can be controlled by the app software. If you have any problems with use of your particular device, then please contact <u>info@conidia.com</u>



Using the FUELSTAT® Result app



Open the app, if you have a registered login always chose this option.

Select the correct test kit









Option to follow test instructions

You have the option to either just scan to verify a completed test, or conduct the test following step-by-step instructions prior to scanning. It is always advisable to follow the test with these step-by-step instructions.

Select SCAN TEST to scan a completed test. For first time or occasional users you should always opt to TEST WITH INSTRUCTIONS which will take you through the correct procedure for optimal test results. When you proceed with the test instructions then the test procedure is broken down into simple video stages which you can follow and conduct each stage of the test step-by-step for optimal results.

Correct sampling is critical

For your convenience the app includes SAMPLE PREPARATION INSTRUCTIONS which provide a guide on how to correctly take fuel samples from fuel tanks and prepare ready for a FUELSTAT test. The collection of free water from the bottom of a tank is always best for the most accurate results.

Once a sample is taken then, if prompted, you must identify whether you are testing for a free water phase sample to ensure correct processes are followed, and that the app correctly calibrates your results.







Timers are provided where required to ensure that the test stages are completed correctly, both during the test process, and afterwards to allow the test to develop, prior to scanning the result.

When the test instructions are completed you will then proceed to the same "scan test" stage as if you had selected to bypass the test instructions.

Scan test

Before scanning the test kit, the FUELSTAT® test must have been completed correctly, with the test left for the prescribed time for lines to appear.

Note: If using FUELSTAT[®] *Plus* the 6 test wells should be read by eye in accordance with the instructions provided in each test kit and the results recorded prior to scanning the test using the app. The FUELSTAT[®] *Result* app is used to verify, record, and share these results, but if there is any issue or discrepancy then **the calibrated manual result must always be taken as correct**.

The first step is to identify the test kit production batch.

Scan the Datamatrix code on the foil packaging or on the test cassette. If you have problem scanning the Datamatrix code, simply type in the batch lot number displayed on the label.







Record test data

It is compulsory to proceed that the correct fuel type and sample type are recorded.

You then have optional information that can be completed.

It is advisable to enter these accurately to ensure that the asset being tested can be clearly identified when the test result is shared, and for future reference.



15-30 minutes after test completion, the app is now ready to scan your test results, hold the phone over the FUELSTAT® cassette. You will see red outlines. Move the test closer or pull back until the outlines turn green and the test is scanned. Once the scan is complete the app shows the results.





Reading the results – FUELSTAT® Plus

The overall result will be split into the following 3 categories. Verify this agrees with manual reading of the test kit:

Negligible Contamination

Moderate Contamination

Heavy Contamination

If there is an alert symbol adjacent to the test result for any of the contaminants, then this means that the result was close to the threshold for a higher degree of contamination.

You have the option of putting any notes here about the test.

Reading the results – FUELSTAT® One

The overall result will be split into the following 3 categories.

Negligible Contamination

Moderate Contamination

Heavy Contamination

The relative level of contamination is indicated by a black line on the coloured scale.

The quantitative value of relative carbohydrate concentration is expressed in ng/mL.

You have the option of putting any notes here about the test.







Troubleshooting when scanning a test

Note: for accurate results ensure that the cassette is scanned within the time window of 15-30 minutes following completion of the test.

Please note that the camera's flash will be turned on automatically when the scanning phase is initialized. It is important not to block the flash while

scanning is carried out.

It is best to scan the test in artificial light only, as any natural light, including daylight through windows, may compete with the flash and give an uncertain result.

The flash will be automatically activated by the app. It is easy to know if there are competing light sources. The scan itself may take longer than the usual two to three seconds and may have warning triangles indicating difficulty in reading. If this happens, remember that the test does not have to be scanned immediately.



If you wish to retry, simply press **Read Test** from the menu side bar to reset. If for any reason you have a non-functioning smartphone, continue to manually read the test kit. Full printed instructions on completing the test and interpreting the test result are included in every test pack, and in multiple languages from the <u>conidia.com</u> website.



re 1

Capture and share information to your Manager

A PDF report can be generated containing the full test result, you have the option to print this or to email to yourself or manager as an instant record of the test result.

FUELSTAT®	ANALYSIS	S REPORT	:ConidiaBioscier	enci 13/19	* =
This test for microbiologi in accordance with ASTM	cal contamination was conduc A D8070 and the results repor	cted on a fuel sample using ted below were read using	the FUELSTAT® Plus tes the FUELSTAT® Result	st i Result Report	X
TEST DATA				FUELSTATIONS ANALYSIS REPORT Control The walf or result dear for the merit on the sector of an expression of the formation of the sector of th	aBioscience ATR Paul tastikit ATR Paul tasti
Tester name:	John Smith	Test date:	01-JAN-2021	FURSTRATED USER FURSTRY Fund FURSTRY Fund Furst Type: Anisticer Fund Furst Cate: 11 Jul 200	4
Location/Site:	Location 1	Printout date:	01-JAN-2021	Tester name: Na ordry by toster Prove make i 11 Jul 200 Tester name: Na ordry by toster Prove make Appla Lonatoria Na ordry by toster Prove makel # (Phocyat2, Asset lifethip: Na ordry by toster	4 5
Asset Identity:	Asset 1	Phone make:	OnePlus	Tank Beferences: Na array by taster OPS location: 51.2621044021375 -4.500921101101021	
Tank Reference:	Tank 1	Phone model #:	ONEPLUS A6013	TEST RESULT CONTAUTION ALERT LEVELS NOTES Bacteries: Mepigale Faugia Mepigale	
GPS location:	25°15'14.2"N 55°22'52.5"E	App version:	2.0.2	Montrecentie receiver incyclyste OVERALL RECUCT: Marijosha MICLAMER SCHUTT (NET MUUTTY COOCHANT Steer There are being	Antipal
FUELSTAT Test Lot #:	B2101			PLCLED Planck independ for some distant and and an end of the some distant and an end of the some distant and an end of the some distant and	NEGLIGIBLE MODERATE HEAVY
TEST RESULT CONTAMIN	ATION ALERT LEVELS	NOTES			
Bacteria:	NEGLIGIBLE	A caution on the Neglig	ible alert levels indicate		
Fungi:	NEGLIGIBLE	Moderate Contaminatio	on	ContiduaBioscience 1: 4430/49/1029/02 Entraportation Reference to equation 500/02/02/02/02/02/02/02/02/02/02/02/02/0	
Hormoconis resinae:	NEGLIGIBLE (CAUTION)				
OVERALL RESULT:	NEGLIGIBLE				
]
DISCLAIMER		RESULT LIMIT INDUSTRY	GUIDELINES		
FUELSTAT® Result is desig	gned for use with tests which	Phase Target antige	n limits Alert level	el	
are fully compliant with A obtained using FUELSTAT®	STMD8070. However, readings Result are currently outside the	Water Up to 33 µg	MEGLIGIBI	LE	
scope of ASTM D8070. Op test results as per ASTM D8	erators should visually validate 070. The accuracy of this report	Fuel Between 150-7	50 µg/L		
may be dependent on the ac	curacy of the sample provided.	Water Between 33-16	6 μg/ml MODERAT	TE	
Full terms of use available or For any technical assistance	n the website: www.conidia.com e telephone: +44 (0)1491 829102	Fuel Greater than 7			
		Water Greater than 16	6 µg/ml		
Conidia Bic Bakeham Lane, Egham, Sur Conidia Bioscience Ltd. Registered in E	DSCIENCE rrey, TW20 9TY, UK ngland at 3 Acorn Business Centre Northarbou	T: +44 (0)149 E: info@conic W: www.conid r Road, Cosham, Portsmouth, PO6 3TG R	1 829102 lia.com ac.com egistration no.03965471 VAT no.760 2	2156 55	



Completion of test

When you have completed the test press the Done button and the test will be saved to your device.

If you are a registered user the result will be instantly uploaded to the Portal, if connected to Wi-Fi or mobile data, or will be uploaded the next time the phone is connected.

Test Result History

There are several options available for you in the bottom tabs within the app. The Results tab will show your previously recorded test results on the app. From there you can select a previous test result and once again view, email and print the PDF report.



Instructions

Entry Full instruction videos are available to watch within the app at any time so that you can fully understand the procedure before conducting a FUELSTAT® test.



Result History

NEGLIGIBLI

NEGLIGIBLE

FUELSTAT® One

FUELSTAT® One

68 Feb 2024

FUELSTAT® One 🖽 30 Jan 2024 () 13:09:19 O No Entry I No Entry

FUELSTAT® On

📆 30 Jan 2024

 O 13:08:14
 No Entry

09:50:32 No Entry

Entry

📅 13 Feb 2024

() 12:05:45 O No Entry I No Entry



APPENDIX 1: ORGANISATION & USER REGISTRATION

How to sign up to use FUELSTAT® Result app and Portal

Register with Conidia Bioscience by emailing <u>info@conidia.com</u> and provide the following information: -

- 4. Company Name
- 5. Company Address
- 6. Full Name of App Administrator (Manager)
- 7. Email Address of Administrator (Manager)

How to add a new user in the FUELSTAT® Result web Portal

Step 1: You will receive an email from <u>admin@fuelstat-results.com</u>, this will contain instructions and a password - we recommend that you have enabled <u>admin@fuelstat-results.com</u> as white listed through your IT department, as we are currently unable to resend the email once it has been inputted into the system and will result in that email address being locked out of the system. Your username will be your email address provided.

Paste or type the following link into your Web Browser: -

https://fuelstat-results.com/auth/login/

This will open the FUELSTAT® Result web page. Log in with your username and password, you may now reset your own memorable password.





Step 2: On the dark blue banner at the top of the screen, click the Manage Organisation tab. This will open your organisation.



Step 3: On the bottom left side of the screen, click the Create Technical User or Engineer: -

- Technical User (for use of Phone App and all Organisation results in portal)
- Engineer (for use of Phone App and view portal with their tests only)

User	~	Email	•	User type	-	
			filte	r v		
ABC Manager	tfrow+abcm	anager@novarumdx.com	Ma	nager		
Technical Manager	tfrow+abctechnical@novarumdx.com Technical					
Fred Brown	tfrow+tb@novarumdx.com Engineer					
John Smith	tfrow+js⊜novarumdx.com					
Create technical user Create engine	Create mobile user	View disabled users		Previous 1	Next	

Step 4: Enter the name and email address of either the **Engineer or Technical User** and click the submit button. The new Engineer will then be sent an automated email, which will take them through the details to set up their password. The new Engineer will now be visible in the Manage Organisation tab.

Create Engineer							
Email address:							
Name:							
Submit							

Note: Please check your junk/spam folders for this email, as we are currently unable to resend the email once it has been inputted into the system and will result in that email address being lock out of the system.



APPENDIX 2: USING THE PORTAL

How to view results in the FUELSTAT® Result web Portal

Step 1: Go to the FUELSTAT[®] Result login in page: <u>https://fuelstat-results.com/auth/login/</u> and input the email address and password.



Step 2: Click the Home tab at the top of the screen to open the list of your test data.

FUELSTAT			🖳 Home	() Profile	Å Manage organ	isation (¹) Lo	g out	
← results list								
Results								
Show 25 v entries					Search		<>	
Capture Date	Registered User	Tester Name	Location/Site	Asset Identity	Tank Reference	Result		
Capture Date	filter Y	filter ~	filter ~	filter ~	filter ~	Result		
08 Mar 2021, 12:10 PM	Non-physics and	John Smith	Location 1	Asset 2	Tank 1	NEGLIGIBLE		
01 Feb 2021, 12:10 PM	No. 37 10 10 10	John Smith	Location 1	Asset 2	Tank 1	NEGLIGIBLE		
01 Feb 2021, 11:30 AM	Replacement	John Smith	Location 1	Asset 1	Tank 2	NEGLIGIBLE	Ê	
01 Feb 2021, 11:20 AM	Respirement.com	John Smith	Location 1	Asset 1	Tank 1	MODERATE	Ê	
10 Jan 2021, 5:03 PM	Resplacements on	Fred Brown	Location 2	Asset 3	Tank 1	NEGLIGIBLE	Ĩ∰]	
03 Jan 2021, 4:27 PM	Name and Address of the Owner of Street of Str	Fred Brown	Location 2	Asset 4	Tank 1	NEGLIGIBLE		
03 Jan 2021, 3:32 PM	Rear of Female States, Sold	Fred Brown	Location 2	Asset 3	Tank 1	NEGLIGIBLE		
03 Jan 2021, 3:29 PM	No. of Concession, series	Fred Brown	Location 2	Asset 3	Tank 1	NEGLIGIBLE	rên (
01 Jan 2021, 2:14 PM	Result research and	Fred Brown	Location 2	Asset 4	Tank 1	NEGLIGIBLE		
01 Jan 2021, 1:34 PM	The other states and	Fred Brown	Location 2	Assot 4	Tank 2		<u>e</u>	
		******		2 - 1993 (1995) 	0.0000000000	MEQUIVIBLE	=	
1. 1. 1. 2.		4.4.4		12.7	1. T. 14 . T		3	



Step 3: View your data. Further information is available by clicking the blue clip board icon on the far right of each data entry.

Capture Date	Registered	User 🚽	Tester Name 🔷	Location/Site	Asset Identity	Tank Reference	Result	
Capture Date	filter	~	filter ~	filter ~	filter ~	filter ~	Result	
08 Mar 2021, 12:10 PM	Real processo		John Smith	Location 1	Asset 2	Tank 1	NEGLIGIBLE	
01 Feb 2021, 12:10 PM	Real processo		John Smith	Location 1	Asset 2	Tank 1	NEGLIGIBLE	Ê
01 Feb 2021, 11:30 AM	Real phoneses	-	John Smith	Location 1	Asset 1	Tank 2	NEGLIGIBLE	Ê
01 Feb 2021, 11:20 AM	Real phone and	-	John Smith	Location 1	Asset 1	Tank 1	MODERATE	Ê

Step 4: Each data entry looks like this:

View result

	Capture Date:	March 8, 2020, 1:05 p.m.	Understanding your results	
Degistered	Device:	OnePlus ONEPLUS A6013	FUELSTAT® Result produces not only a clear result but also, by optical analysis of line intensity, produces ratios	
	Company Name:	ABC Company	based on the actual score of each test window (there are b), calculated by dividing the lest Line Score by the Control Line Score. These Actual Score Ratios are useful in understanding how each test window relates to the Alert Levels that are based on industry guidelines for the range of Neglicikle. Moderate and Heavy Contamination, Aleo	
	Registered User:	John Smith	each test window has a new Caution Level that indicates to users that the window in view is getting close to the Alext Level and remedial maintenance action may be worthwhile at this point	
	Tester Name:	John Smith	EXAMPLE FOR ILLUSTRATION Example Caution Alert	
	Location/Site:	Location 1	This illustration shows an example of how the Actual Score Ratio relates to both the Caution Level and the	
User entrv	Asset Identity:	Asset 1	Alert Level.	
fields	Tank Reference:	Tank 1	FUELSTAT [®] Result is intended as a guide only, as true results could be affected by lighting, phone used etc.,	
	FUELSTAT Test Lot #: B2101		but could help in making maintenance decisions easier and at correct times.	
	Comments:	Data not supplied		
Test results	H.res:	NEGLIGIBLE	High Bacteria High Funghi High H.res Low Bacteria Low Funghi Low H.res	
for each	Bacteria:	NEGLIGIBLE	Image captured for the test window showing Control Line on left and Test Line on right	
contaminant 🗸	Funcia		Test Line Score: 16.87 (The intensity of the Test Line on the right)	Jetailed
and overall	Fungi:	NEGLIGIBLE	Control Line Score: 19.20 (The intensity of the Control Line on the left)	
outcome	Overall outcome:	NEGLIGIBLE	Actual Score Ratio: 0.879 (A ratio of the Test Line Score / Control Line Score)	each
PDF print		EDIT USER ENTRY FIELDS	Alert Level: 0.07 (Actual Score Ratio < Alert Level = positive contamination result) with actua	al score
edit and			Caution Level: 0.11 (Actual Score Ratio between Caution and Alert Level = caution) and alert	rt levels
archive		ARCHIVE THIS RESULT		
tools			Data for app developer analysis only	
	51°25'07.3"N 0°34	'08.5"W	The following graph and data points are used by app developers to assess the test line positions in each test window.	
	View large map			
GPS			C peak position T peak position Baseline	
coordinates	the second state		200	







P

Step 5: Print or save PDF Analysis Report:

FUELSTAT	ANALYSI	S REPOR	Γ	Co	nidiaBioscience	
This test for microbiolog in accordance with ASTI	ical contamination was condu M D8070 and the results repo	ucted on a fuel sampl orted below were read	e using d using	the FUEL the FUEL	STAT® Plus test k .STAT® Result app	
REGISTERED USER						
Registered User:	John Smith	Ado	dress:	Bakehar	n Lane	
Company name:	ABC Company	Post	oodo:		Surrey	
Customer reference:	101	FUST	untry:	United k	íngdom	
TEST DATA			unti y.	onited i	anguom	
	John Smith			10.070		
lester name:	John Smith	FUELSTAT res	suit #:	18,278	2021	
		Printout	date:	01- JAN	2021	
Tank Reference	Tank 1	Phone	make [.]	01-JAN-2021 OnePlus ONEPLUS A6013 2.0.2		
GPS location:	25°15′14.2″N	Phone mo	del #:			
	55°22'52.5"E	App ve	rsion:			
FUELSTAT Test Lot #:	B2101	Portal ve	rsion:	3.0.1		
TEST RESULT CONTAMIN	IATION ALERT LEVELS	NOTES				
Bacteria:	NEGLIGIBLE	A caution on the	Neglig	ible alert	levels indicates	
Fungi:	NEGLIGIBLE	that reading is getting close to the alert level for Moderate Contamination				
Hormoconis resinae:	NEGLIGIBLE (CAUTION)					
OVERALL RESULT:	NEGLIGIBLE					
DISCLAIMER		RESULT LIMIT IND	USTRY	GUIDELII	NES	
ELIEL STAT® Deput in desi	and for use with tests which	Phase Target	antiger	n limits	Alert level	
are fully compliant with A	STMD8070. However, readings Result are currently outside the	Fuel Up Water Up	to 150 μ to 33 μα	g/L /ml	NEGLIGIBLE	
scope of ASTM D8070. Op test results as per ASTM D8 may be dependent on the ac	perators should visually validate 8070. The accuracy of this report ccuracy of the sample provided.	Fuel Betwee	en 150-75	50 µg/L	MODERATE	
Full terms of use available o	n the website: www.conidia.com	water Betwee	en 33-160	pµg/mi		
For any technical assistance	e telephone: +44 (0)1491 829102	Fuel Greate	er than 75	ο μg/L	HEAVY	

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- W: www.conidia.com





Step 6: Edit user entry fields. This is the data entered by the tester within the app when conducting the test. Should you wish to edit / correct that information then you can do this here:

EDIT USER ENTRY FIELDS	Edit result	
	Tester Name:	Fred Brown
	Location/Site:	Location 2
	Asset Identity:	Asset 3
	Tank Reference:	Tank 1
	FUELSTAT Test Lot #:	B2101
	Comments:	Test following clean & biocide, now showing negligible contamination
	Submit	

Step 7: Archive result. If the test has been duplicated, or is no longer required, you can archive individual results. Any archived results can also be un-archived.

ARCHIVE THIS RESULT

Who we are:

FUELSTAT[®] fuel tests are developed, manufactured, and marketed by Conidia Bioscience Limited. Based in UK, Conidia Bioscience Limited was founded in early 2000's by experts in immunoassay techniques and holds the internationally patented intellectual property for FUELSTAT[®].

FUELSTAT[®] Result is hosted by Conidia Bioscience Limited and its service partners on secure servers and does not share any data with third parties.

Where to find us:

FUELSTAT[®] is distributed globally by a network of specialist distributors covering the major sectors. Contact <u>info@conidia.com</u> who will arrange for a distributor to support you.

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