

TEST REPORT

No. TESR 25/2023/5100

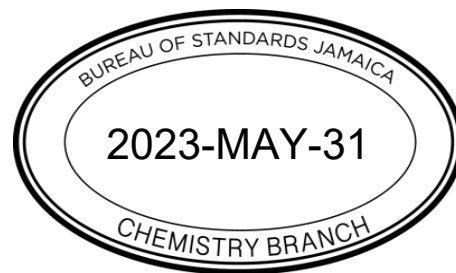
This report is a correct record of the measurements and observations made. The report is intended for the private information of those for whom the work was done and not be used in whole or in part in any other way except with the written approval of the director of Standards. Misuse may lead to the penalties provided under the Standards Act, 1968. The Bureau accepts no responsibility for any loss or damage which may be sustained as a result of the use or reliance upon this report.



Customer Name	Environmental Solutions Limited	Reference:	CMQ-C/MISC 15271
Address:	7 Hillview Avenue, Kingston 10, Saint Andrew	Date Received:	2023-05-25
Manufacturer:	N/A	Date and Location of Test:	6 Winchester Road, Kingston 10 2023-05-26
Product:	Fuel	Serial No. / ID No.:	N/A
Test Method:	Official Methods of Analysis of AOAC International, 20 th Edition, 2016, Method 968.09.	Specification(s):	Provided by Client
Ambient Conditions:	Ambient Conditions	Test Uncertainty:	See results table
Standard(s) Used:	Methyl Alcohol – Purity: 99.99% n-Butanol – 99.4%	Traceability:	N/A

A clear liquid identified as Fuel (Code: N. Barnes, 21/05/2023) was submitted to the Chemistry Branch for methanol analysis. It should be noted that the sample was submitted in a repurposed 275 ml glass bottle sealed with a blue tape (Figure 1). The sample occupied approximately 65% of the container. Photographs were taken of the sample at various stages of analysis and prior to opening. Figures 2 to 5 indicate the various stages of opening and removal of sample for analysis. It was observed that the sample contained free and suspended solids.

After opening, the sample was analyzed as outlined by AOAC method number 968.09 with the aid of an Agilent Technologies 7890B GC System equipped with a Flame Ionization Detector and an Agilent J & W DB-624 column for chromatographic separation of the analytes. The results obtained from the analysis are listed in Table 1 below.

Report continued on pages 2 to 5.



Circulation: Chemistry Branch Environmental Solutions Limited File	Remarks:	Prepared by:	Issued/Approved by:
		Signature: 	Signature: 
		Name: Z. Hudson	Name: Debbian Wray
		Post: Analyst	Post: Acting Manager
		Date: 2023-05-31	Date: 2023-05-31

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Table 1: Methanol content of Fuel Sample coded as N. Barnes, 21/05/2023.

Sample	Analytical Parameter Tested	Results
Fuel Code: N. Barnes, 21/05/2023	Methanol (%v/v)	90.42 ± 0.27*

*K Factor = 1

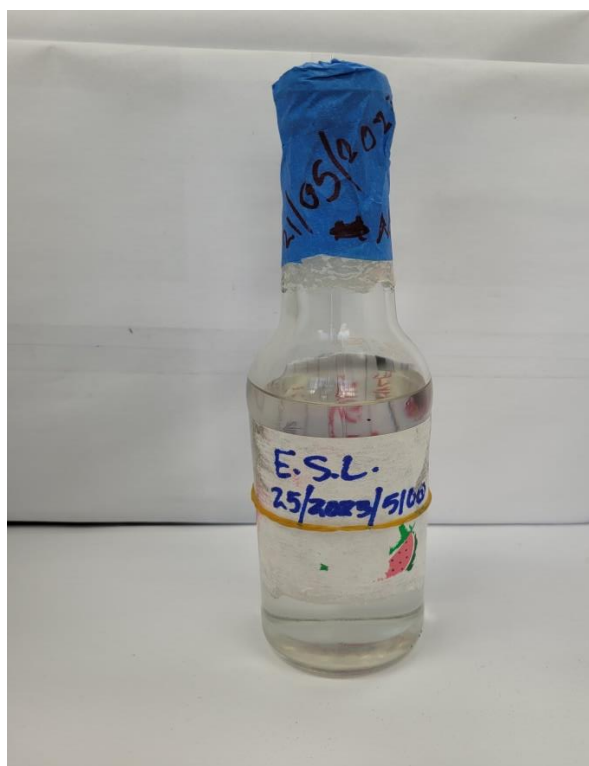
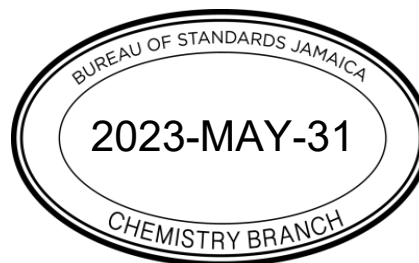


Figure 1: Fuel sample coded as N. Barnes, 21/05/2023 (BSJ assigned Job #: 25/2023/5100) received by the Chemistry Branch from Environmental Solutions Limited on May 25th 2023. Note blue tape used to seal sample.



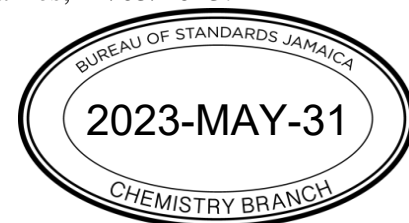
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Figure 2: Fuel sample coded as N. Barnes, 21/05/2023 being opened prior to analysis.



Figure 3: Blue tape/seal being removed from Fuel sample coded as N. Barnes, 21/05/2023.



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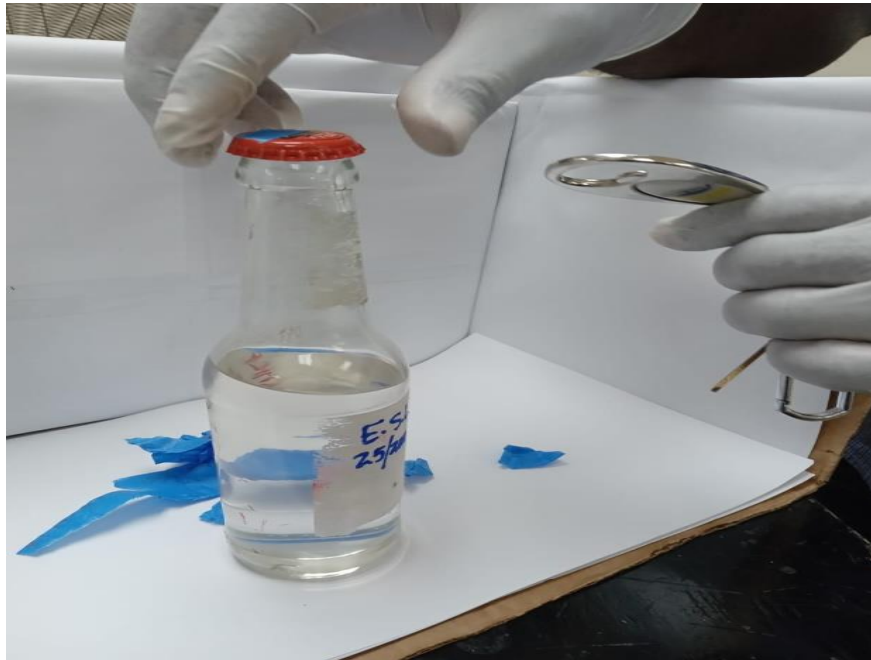


Figure 4: Fuel sample (coded as N. Barnes, 21/05/2023) being opened with aid of a bottle opener.



Figure 5: Fuel sample (coded as N. Barnes, 21/05/2023) opened prior to analysis.



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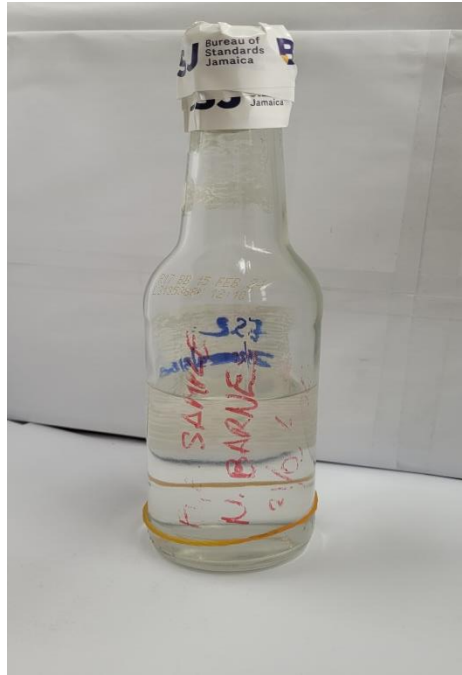


Figure 6: Fuel sample (coded as N. Barnes, 21/05/2023) resealed after analysis.

Additions, deviations, or exclusions from method	N/A
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“The results reported are representative of the sample that was tested.”

END OF REPORT

