

The Oldest Registered



Distillery in the U.S.A.



JACK DANIEL DISTILLERY



LEM MOTLOW, PROPRIETOR

DISTILLERS AND BOTTLEERS OF THE FAMOUS

Phone 931 759-4221

AWARDED THE HIGHEST GOLD MEDALS AT
ST. LOUIS, MO. EXPOSITION, 1904
LIEGE, BELGIUM, 1905
GHENT, BELGIUM, 1913
ANGLO-AMERICAN EXPOSITION, LONDON, 1914
CERTIFICATE OF THE INST. OF HYGIENE, LONDON, 1915
STAR OF EXCELLENCE, BRUSSELS, BELGIUM, 1954
GOLD MEDAL WITH PALM LEAVES, AMSTERDAM, 1981



LYNCHBURG, TENN.
37352



FINE WHISKEYS
PLACED IN THE NATIONAL
REGISTER OF HISTORIC
PLACES BY THE UNITED
STATES GOVERNMENT

October 26, 2023

VIA E-MAIL: Air.Pollution.Control@tn.gov

VIA E-MAIL: APC.ColuEFO@tn.gov

Ms. Michelle Walker Owenby, Director
Tennessee Division of Air Pollution Control (TDAPC)
ATTN: Operating Permits Program
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243

RE: Semi-Annual Title V Report Certification
Jack Daniel Distillery, Lem Motlow Proprietor
1926 Fayetteville Highway, Lynchburg, TN
Emission Source Reference Number: 64-0013

Dear Ms. Owenby:

Jack Daniel Distillery, Lem Motlow Proprietor in Lynchburg, Tennessee currently holds Title V operating permit number 572445 issued June 7, 2018 and Administrative Amendment #1 issued on January 9, 2020. In accordance with the Title V permit and TAPCR 1200-3-9-.02(11)(e)1.(iii), we are submitting our semi-annual compliance report.

The enclosed semi-annual report covers the reporting period April 1, 2023 to September 30, 2023 with a report deadline of November 30, 2023.

I, the undersigned, am the responsible official as defined in TAPCR 1200-03-09-.02(11)(b)21 of the Title V source for which this document is being submitted. This document consists of eight (8) pages. I hereby certify, based on the information and belief formed after reasonable inquiry, that the statements made and data contained in this document are true, accurate, and complete.

Please contact Donna Clark at (931) 247-1725 or via email at donna_clark@b-f.com should you have any questions or need additional information.

Respectfully,

JACK DANIEL DISTILLERY
Lem Motlow Proprietor

Melvin H. Keebler
SVP General Manager

Enclosures



SEMI-ANNUAL REPORT
JACK DANIEL DISTILLERY, LEM MOTLOW PROPRIETOR
Reference No. 64-0013
Permit Number 572445
Semi-Annual Period April 1, 2023 to September 30, 2023

Condition E2(a)(1)

Summary of Monitoring and Recordkeeping for all Conditions Listed in Condition E2(a)(1) of the Permit

Condition E4-2:

SO₂ from the boilers identified in this condition did not exceed the respective lb/hr limits (42.67 lbs/hr total) during the reporting period nor 186.89 tons during all periods of twelve consecutive months based on heat input capacity fire rate and a maximum sulfur content of 0.5% by weight.

Compliance is demonstrated by using the current EPA AP-42 emission factor at 0.5% sulfur content by weight at maximum fire rate of the boiler for distillate oil. For each shipment of oil utilized in the boiler, documentation will be supplied which contains information sufficient to establish the sulfur content of the fuel oil (vendor analysis, MSDS, fuel oil specification data or similar information). This information is submitted and reported as part of the semiannual reports in which oil is utilized in the boilers in accordance with Condition E2(a)(1). No deviations occurred from the requirements of these conditions of this permit during this reporting period.

Fuel oil was not burned in warehouse boilers during the period. Accordingly, fuel certifications for the ultra-low diesel fuel are not attached for reference.

Condition E5-1:

Volatile organic compounds (VOC) emissions from these sources did not exceed 10,607 tons during all periods of twelve consecutive months. Compliance is demonstrated by using the emission factor from the Brown-Forman Barrel Study of 7.35 lbs of ethanol/barrel/year applied to the number of barrels stored in the warehouses to calculate VOC emissions. Logs 1 and 2 are submitted semiannually as required. No deviations occurred from the requirements of these conditions of this permit during this reporting period.

Condition E6-1:

VOC emissions from these sources did not exceed 483.7 tons during all periods of twelve consecutive months of operation. Compliance is demonstrated by using the historical VOC loss emission factor of 0.5%. Log 3 is submitted semiannually as required; records of calibrations for density meters, hydrometers, thermometers, and tank scales are kept available for the Technical Secretary or his representative. No deviations occurred from the requirements of these conditions of this permit during this reporting period.

Condition E9-2:

SO₂ emitted from the boilers in this condition did not exceed the respective lb/hr limits (32.34 lbs/hr total) during the reporting period nor 38.5 tons during all periods of twelve consecutive months based on heat input capacity fire rate and a maximum sulfur content of 0.5% by weight.

Compliance is demonstrated by using the current EPA AP-42 emission factor at 0.5% sulfur content by weight at maximum fire rate of the boiler for distillate oil. For each shipment of oil utilized in the boiler, documentation will be supplied which contains information sufficient to establish the sulfur content of the fuel oil (vendor analysis, MSDS, fuel oil specification data or similar information). This information is submitted and reported as part of the semiannual reports in which oil is utilized in the boilers in accordance with Condition E2(a)(1). No deviations occurred from the requirements of these conditions of this permit during this reporting period.

Fuel oil was not burned in warehouse boilers during the period. Accordingly, fuel certifications for the ultra-low diesel fuel are not attached for reference.

Condition E2(a)(2)

Summary of Visible Emission Evaluation Readings for all Conditions Listed in Condition E2(a)(2) of the Permit

Condition E3-1:

Visible emission evaluations, based on the opacity matrix, are not required for any source at this facility; therefore, no evaluations were performed during this semi-annual reporting period. No deviations occurred from the requirements of these conditions of this permit during this reporting period.

Condition E2(a)(3)

Identification of All Instances of Deviations from All Permit Requirements.

There were no deviations of permit conditions from any source during this reporting period.

Jack Daniel Distillery
Lem Motlow Proprietor
Title V Compliance Demonstration

LOG 1: Monthly warehouse logs for VOC emission compliance.

This Warehouse VOC Emissions Log is for the Month of April, Year 2023.

Source	Location	Type of Warehouse	Number of Warehouses	Material Processed (Number of Barrels of Whiskey per Month)	Emission Factor (lb VOC/barrel)	VOC Emissions (ton/month)
64-0013-06	Tract I	Traditional	96	2,725,199	0.6125	834.59
	and					
64-0013-02	Tract II					
	and					
64-0013-08	Tract III					
Total					Monthly Total from all Warehouses	834.59

This Warehouse VOC Emissions Log is for the Month of May, Year 2023.

Source	Location	Type of Warehouse	Number of Warehouses	Material Processed (Number of Barrels of Whiskey per Month)	Emission Factor (lb VOC/barrel)	VOC Emissions (ton/month)
64-0013-06	Tract I	Traditional	96	2,747,801	0.6125	841.51
	and					
64-0013-02	Tract II					
	and					
64-0013-08	Tract III					
Total					Monthly Total from all Warehouses	841.51

This Warehouse VOC Emissions Log is for the Month of June, Year 2023.

Source	Location	Type of Warehouse	Number of Warehouses	Material Processed (Number of Barrels of Whiskey per Month)	Emission Factor (lb VOC/barrel)	VOC Emissions (ton/month)
64-0013-06	Tract I	Traditional	96	2,764,098	0.6125	846.51
	and					
64-0013-02	Tract II					
	and					
64-0013-08	Tract III					
Total					Monthly Total from all Warehouses	846.51

Jack Daniel Distillery
Lem Motlow Proprietor
Title V Compliance Demonstration

LOG 1: Monthly warehouse logs for VOC emission compliance.

This Warehouse VOC Emissions Log is for the Month of July, Year 2023.

Source	Location	Type of Warehouse	Number of Warehouses	Material Processed (Number of Barrels of Whiskey per Month)	Emission Factor (lb VOC/barrel)	VOC Emissions (ton/month)
64-0013-06	Tract I	Traditional	96	2,784,552	0.6125	852.77
	and					
64-0013-02	Tract II					
	and					
64-0013-08	Tract III					
Total					Monthly Total from all Warehouses	852.77

This Warehouse VOC Emissions Log is for the Month of August, Year 2023.

Source	Location	Type of Warehouse	Number of Warehouses	Material Processed (Number of Barrels of Whiskey per Month)	Emission Factor (lb VOC/barrel)	VOC Emissions (ton/month)
64-0013-06	Tract I	Traditional	96	2,796,198	0.6125	856.34
	and					
64-0013-02	Tract II					
	and					
64-0013-08	Tract III					
Total					Monthly Total from all Warehouses	856.34

This Warehouse VOC Emissions Log is for the Month of September, Year 2023.

Source	Location	Type of Warehouse	Number of Warehouses	Material Processed (Number of Barrels of Whiskey per Month)	Emission Factor (lb VOC/barrel)	VOC Emissions (ton/month)
64-0013-06	Tract I	Traditional	96	2,818,664	0.6125	863.22
	and					
64-0013-02	Tract II					
	and					
64-0013-08	Tract III					
Total					Monthly Total from all Warehouses	863.22

Jack Daniel Distillery
Lem Motlow Proprietor
Title V Compliance Demonstration

LOG 2: Log of VOC Emissions for 12 Consecutive Months

VOC Emissions		
Month/Year	Tons/Month	Tons/12 Consecutive Months*
April 2023	834.6	10,099.7
May 2023	841.5	10,106.5
June 2023	846.5	10,112.4
July 2023	852.8	10,119.7
August 2023	856.3	10,129.5
September 2023	863.2	10,146.8

Jack Daniel Distillery
Lem Motlow Proprietor
Title V Compliance Demonstration

LOG 3: Monthly Log for Compliance Purposes for Processing and Bottling from 64-0013-05 & 07

Processing and Bottling Monthly VOC Emissions Log for the Month of April 2023

Processing and Bottling From All Tracts	Month/Year	Proof Gallons per Month	VOC Emissions Released Monthly (pounds)*	VOC Emissions (ton/month)	VOC Emissions (tons/12 consecutive months)**
	Apr-23	3,091,281.00	51,006.14	25.50	
		Total for All Tracts	51,006.14	25.50	365.75

Processing and Bottling Monthly VOC Emissions Log for the Month of May 2023

Processing and Bottling From All Tracts	Month/Year	Proof Gallons per Month	VOC Emissions Released Monthly (pounds)*	VOC Emissions (ton/month)	VOC Emissions (tons/12 consecutive months)**
	May-23	3,065,250.40	50,576.63	25.29	
		Total for All Tracts	50,576.63	25.29	363.89

Processing and Bottling Monthly VOC Emissions Log for the Month of June 2023

Processing and Bottling From All Tracts	Month/Year	Proof Gallons per Month	VOC Emissions Released Monthly (pounds)*	VOC Emissions (ton/month)	VOC Emissions (tons/12 consecutive months)**
	Jun-23	3,117,613.38	51,440.62	25.72	
		Total for All Tracts	51,440.62	25.72	363.21

Processing and Bottling Monthly VOC Emissions Log for the Month of July 2023

Processing and Bottling From All Tracts	Month/Year	Proof Gallons per Month	VOC Emissions Released Monthly (pounds)*	VOC Emissions (ton/month)	VOC Emissions (tons/12 consecutive months)**
	Jul-23	2,531,008.40	41,761.64	20.88	
		Total for All Tracts	41,761.64	20.88	360.19

Processing and Bottling Monthly VOC Emissions Log for the Month of August 2023

Processing and Bottling From All Tracts	Month/Year	Proof Gallons per Month	VOC Emissions Released Monthly (pounds)*	VOC Emissions (ton/month)	VOC Emissions (tons/12 consecutive months)**
	Aug-23	3,554,859.80	58,655.19	29.33	
		Total for All Tracts	58,655.19	29.33	356.79

Processing and Bottling Monthly VOC Emissions Log for the Month of September 2023

Processing and Bottling From All Tracts	Month/Year	Proof Gallons per Month	VOC Emissions Released Monthly (pounds)*	VOC Emissions (ton/month)	VOC Emissions (tons/12 consecutive months)**
	Sep-23	2,212,864.80	36,512.27	18.26	
		Total for All Tracts	36,512.27	18.26	340.97

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LOG 3: Monthly Log for Compliance Purposes for Processing and Bottling from 64-0013-05 & 07

VOC Emissions		
Month/Year	Tons/Month	Tons/12 Consecutive Months
April 2023	25.50	365.7
May 2023	25.29	363.9
June 2023	25.72	363.2
July 2023	20.88	360.2
August 2023	29.33	356.8
September 2023	18.26	341.0