3707696

Certificate of Analysis

Vessel / Object:		**Job No:**	180-25-00387
Location:	Mickleton, NJ / TBD (United States)	**Date Sampled:**	01/24/25
Job Type:	Submitted Sample	**Date Tested:**	01/27/25
Product Grade:	Kerosene	**Version:**	1 / 27 Jan 2025 12:08
Client Reference:	Energy Transfer Partners, L.P. / well sample		

Sample	**Sample ID, Type & Description**
180-25-00387-001	Well Sample 01.23.2025 Submitted

Method	Test	Result	Units
ASTM D4052	API Gravity @60°F	42.4	°
ASTM D2887	Full Scan in °F	See Attached	
ASTM D6045	Saybolt Color	-16	
ASTM D56	Corrected Flash Point by TCC	117	°F
ASTM D4294	Total Sulfur Content	0.0134	%wt
ASTM D4176 proc. 2	Haze Number Distillate Fuels		
	Haze Rating	2	
	Temperature of Sample	77	°F
ASTM D2624	Electrical Conductivity of Aviation and Distillate Fuels		
	Electrical Conductivity	55	pS/m
	Temperature of Sample	21	°C

Kevin Tattersall

Kevin Tattersall
Laboratory Supervisor

Certificate of Analysis

SINCE 1985

Quality Controlled Through Analysis

10630 FALLSTONE RD. HOUSTON, TEXAS 77099
P.O. BOX 741905, HOUSTON, TEXAS 77274

TEL: (281) 495-2400
FAX: (281) 495-2410

CLIENT:	Energy Transfer	**REQUESTED BY:**	Mr. Igor Batytskiy
CLIENT PROJECT:	WBS#: E-25060-RL-25300050	**PURCHASE ORDER NO:**	PENDING
LABORATORY NO:	104047-001 Page 1 of 2	**REPORT DATE:**	February 04, 2025
SAMPLE:	SPL-Washington Crossing [redacted] 2025-01-29 10:00		

Organic Composition Breakdown by GC-MS, ASTM D 5739.b

The sample was analyzed on a gas chromatography/mass spectrometer. A library search was performed on the collected data using the Wiley 138 Library and the NIST 98 Library. Together, the libraries contain approximately 200,000 compounds.

The sample was analyzed as received on the GC/MS. The data presented in this report is based on the chromatographable components found. In case there are heavier compounds or polymers present, they were not seen on the gas chromatograph/ mass spectrometer. No corrections were made for the presence of any metals or water content in this organic analysis report. The identities and approximate concentrations following are based on the best spectral comparisons from our libraries and the total ion relative areas of the peaks observed.

The sample is a mixture of aliphatic and aromatic middle distillate hydrocarbons with a carbon distribution ranging from C5 to C20, with the apex at C11. Lesser concentrations of low level and unidentified compounds were also found in the sample.

The approximate relative concentration of the organic chemical types are as follows:

Tentatively Identified Compounds Found	**Relative Concentration Percent by Weight**
Paraffins	21.7
Isoparaffins	32.2
Olefins	2.3
Naphthenics	15.3
Aromatics	28.4
Other low level and unidentified compounds	0.1
Total	100.0

Certificate of Analysis

SINCE 1985

Quality Controlled Through Analysis

10630 FALLSTONE RD. HOUSTON, TEXAS 77099
P.O. BOX 741905, HOUSTON, TEXAS 77274

TEL: (281) 495-2400
FAX: (281) 495-2410

CLIENT:	Energy Transfer	**REQUESTED BY:**	Mr. Igor Batytskiy
CLIENT PROJECT:	WBS#: E-25060-RL-25300050	**PURCHASE ORDER NO:**	PENDING
LABORATORY NO:	104047-001 Page 2 of 2	**REPORT DATE:**	February 04, 2025
SAMPLE:	SPL-Washington Crossing [redacted] 2025-01-29 10:00		

Simulated Distillation, SimDis, Lower Temperature Range, 55 to 538°C, C5 to C44, ASTM D 2887.c

	Results, °F
Initial Boiling Point	195
5% recovered	281
10% recovered	304
15% recovered	322
20% recovered	333
25% recovered	345
30% recovered	356
35% recovered	369
40% recovered	381
45% recovered	388
50% recovered	400
55% recovered	413
60% recovered	423
65% recovered	436
70% recovered	448
75% recovered	459
80% recovered	476
85% recovered	490
90% recovered	510
95% recovered	539
99% recovered	585

Respectfully submitted
For Texas OilTech Laboratories, L.P.

Ikenna "Ike" Ezeji
Laboratory Director

Certificate of Analysis

SINCE 1985

Quality Controlled Through Analysis

10630 FALLSTONE RD. HOUSTON, TEXAS 77099
P.O. BOX 741905, HOUSTON, TEXAS 77274

TEL: (281) 495-2400
FAX: (281) 495-2410

CLIENT:	Energy Transfer	**REQUESTED BY:**	Mr. Igor Batytskiy
CLIENT PROJECT:	WBS#: E-25060-RL-25300050	**PURCHASE ORDER NO:**	PENDING
LABORATORY NO:	104047-002 Page 1 of 2	**REPORT DATE:**	February 04, 2025
SAMPLE:	SPL- Washington Crossing [redacted] 2025-01-29 10:20		

Organic Composition Breakdown by GC-MS, ASTM D 5739.b

The sample was analyzed on a gas chromatography/mass spectrometer. A library search was performed on the collected data using the Wiley 138 Library and the NIST 98 Library. Together, the libraries contain approximately 200,000 compounds.

The sample was analyzed as received on the GC/MS. The data presented in this report is based on the chromatographable components found. In case there are heavier compounds or polymers present, they were not seen on the gas chromatograph/ mass spectrometer. No corrections were made for the presence of any metals or water content in this organic analysis report. The identities and approximate concentrations following are based on the best spectral comparisons from our libraries and the total ion relative areas of the peaks observed.

The sample is a mixture of aliphatic and aromatic middle distillate hydrocarbons with a carbon distribution ranging from C6 to C20, with the apex at C11. Lesser concentrations of a phthalate ester material and low level/unidentified compounds were also found in the sample.

The approximate relative concentration of the organic chemical types are as follows:

Tentatively Identified Compounds Found	**Relative Concentration Percent by Weight**
Paraffins	21.5
Isoparaffins	32.9
Olefins	2.9
Naphthenics	16.9
Aromatics	20.7
Bis-(2-ethylhexyl) phthalate	0.4
Other phthalate ester material	4.5
Other low level and unidentified compounds	0.2
Total	100.0

Certificate of Analysis

SINCE 1985

Quality Controlled Through Analysis

10630 FALLSTONE RD. HOUSTON, TEXAS 77099
P.O. BOX 741905, HOUSTON, TEXAS 77274

TEL: (281) 495-2400
FAX: (281) 495-2410

CLIENT:	Energy Transfer	**REQUESTED BY:**	Mr. Igor Batytskiy
CLIENT PROJECT:	WBS#: E-25060-RL-25300050	**PURCHASE ORDER NO:**	PENDING
LABORATORY NO:	104047-002 Page 2 of 2	**REPORT DATE:**	February 04, 2025
SAMPLE:	SPL- Washington Crossing [redacted] 2025-01-29 10:20		

Simulated Distillation, SimDis, Lower Temperature Range, 55 to 538°C, C5 to C44, ASTM D 2887.c

	Results, °F
Initial Boiling Point	215
5% recovered	293
10% recovered	314
15% recovered	330
20% recovered	345
25% recovered	354
30% recovered	369
35% recovered	380
40% recovered	387
45% recovered	401
50% recovered	414
55% recovered	423
60% recovered	436
65% recovered	449
70% recovered	460
75% recovered	477
80% recovered	490
85% recovered	511
90% recovered	539
95% recovered	617
99% recovered	808

Respectfully submitted
For Texas OilTech Laboratories, L.P.

Ikenna "Ike" Ezeji
Laboratory Director

Certificate of Analysis

SINCE 1985

Quality Controlled Through Analysis

10630 FALLSTONE RD. HOUSTON, TEXAS 77099
P.O. BOX 741905, HOUSTON, TEXAS 77274

TEL: (281) 495-2400
FAX: (281) 495-2410

CLIENT:	Energy Transfer	**REQUESTED BY:**	Mr. Igor Batytskiy
CLIENT PROJECT:	WBS#: E-25060-RL-25300050	**PURCHASE ORDER NO:**	PENDING
LABORATORY NO:	104047-003 Page 1 of 2	**REPORT DATE:**	February 04, 2025
SAMPLE:	MHTF A 2024-12-27		

Organic Composition Breakdown by GC-MS, ASTM D 5739.b

The sample was analyzed on a gas chromatography/mass spectrometer. A library search was performed on the collected data using the Wiley 138 Library and the NIST 98 Library. Together, the libraries contain approximately 200,000 compounds.

The sample was analyzed as received on the GC/MS. The data presented in this report is based on the chromatographable components found. In case there are heavier compounds or polymers present, they were not seen on the gas chromatograph/ mass spectrometer. No corrections were made for the presence of any metals or water content in this organic analysis report. The identities and approximate concentrations following are based on the best spectral comparisons from our libraries and the total ion relative areas of the peaks observed.

The sample is a mixture of aliphatic and aromatic middle distillate hydrocarbons with a carbon distribution ranging from C5 to C20, with the apex at C11. Lesser concentrations of low level and unidentified compounds were also found in the sample.

The approximate relative concentration of the organic chemical types are as follows:

Tentatively Identified Compounds Found	**Relative Concentration Percent by Weight**
Paraffins	23.8
Isoparaffins	34.4
Olefins	1.7
Naphthenics	17.9
Aromatics	22.1
Other low level and unidentified compounds	0.1
Total	100.0

Certificate of Analysis

SINCE 1985

Quality Controlled Through Analysis

10630 FALLSTONE RD. HOUSTON, TEXAS 77099
P.O. BOX 741905, HOUSTON, TEXAS 77274

TEL: (281) 495-2400
FAX: (281) 495-2410

CLIENT:	Energy Transfer	**REQUESTED BY:**	Mr. Igor Batytskiy
CLIENT PROJECT:	WBS#: E-25060-RL-25300050	**PURCHASE ORDER NO:**	PENDING
LABORATORY NO:	104047-003 Page 2 of 2	**REPORT DATE:**	February 04, 2025
SAMPLE:	MHTF A 2024-12-27		

Simulated Distillation, SimDis, Lower Temperature Range, 55 to 538°C, C5 to C44, ASTM D 2887.c

	Results, °F
Initial Boiling Point	216
5% recovered	283
10% recovered	303
15% recovered	319
20% recovered	329
25% recovered	344
30% recovered	349
35% recovered	359
40% recovered	372
45% recovered	384
50% recovered	389
55% recovered	402
60% recovered	415
65% recovered	423
70% recovered	436
75% recovered	449
80% recovered	460
85% recovered	479
90% recovered	493
95% recovered	521
99% recovered	570

Respectfully submitted
For Texas OilTech Laboratories, L.P.

Ikenna “Ike” Ezeji
Laboratory Director

Certificate of Analysis

SINCE 1985

Quality Controlled Through Analysis

10630 FALLSTONE RD. HOUSTON, TEXAS 77099
P.O. BOX 741905, HOUSTON, TEXAS 77274

TEL: (281) 495-2400
FAX: (281) 495-2410

CLIENT:	Energy Transfer	**REQUESTED BY:**	Mr. Igor Batytskiy
CLIENT PROJECT:	WBS#: E-25060-RL-25300050	**PURCHASE ORDER NO:**	PENDING
LABORATORY NO:	104047-004 Page 1 of 2	**REPORT DATE:**	February 04, 2025
SAMPLE:	MHTF B 2025-01-25		

Organic Composition Breakdown by GC-MS, ASTM D 5739.b

The sample was analyzed on a gas chromatography/mass spectrometer. A library search was performed on the collected data using the Wiley 138 Library and the NIST 98 Library. Together, the libraries contain approximately 200,000 compounds.

The sample was analyzed as received on the GC/MS. The data presented in this report is based on the chromatographable components found. In case there are heavier compounds or polymers present, they were not seen on the gas chromatograph/ mass spectrometer. No corrections were made for the presence of any metals or water content in this organic analysis report. The identities and approximate concentrations following are based on the best spectral comparisons from our libraries and the total ion relative areas of the peaks observed.

The sample is a mixture of aliphatic and aromatic middle distillate hydrocarbons with a carbon distribution ranging from C5 to C20, with the apex at C11. Lesser concentrations of low level and unidentified compounds were also found in the sample.

The approximate relative concentration of the organic chemical types are as follows:

Tentatively Identified Compounds Found	**Relative Concentration Percent by Weight**
Paraffins (C5-C20)	21.8
Isoparaffins	32.6
Olefins	2.2
Naphthenics	14.4
Aromatics	28.9
Other low level and unidentified compounds	0.1
Total	100.0

Certificate of Analysis

SINCE 1985

Quality Controlled Through Analysis

10630 FALLSTONE RD. HOUSTON, TEXAS 77099
P.O. BOX 741905, HOUSTON, TEXAS 77274

TEL: (281) 495-2400
FAX: (281) 495-2410

CLIENT:	Energy Transfer	**REQUESTED BY:**	Mr. Igor Batytskiy
CLIENT PROJECT:	WBS#: E-25060-RL-25300050	**PURCHASE ORDER NO:**	PENDING
LABORATORY NO:	104047-004 Page 2 of 2	**REPORT DATE:**	February 04, 2025
SAMPLE:	MHTF B 2025-01-25		

Simulated Distillation, SimDis, Lower Temperature Range, 55 to 538°C, C5 to C44, ASTM D 2887.c

	Results, °F
Initial Boiling Point	237
5% recovered	296
10% recovered	318
15% recovered	330
20% recovered	345
25% recovered	355
30% recovered	369
35% recovered	381
40% recovered	388
45% recovered	400
50% recovered	412
55% recovered	422
60% recovered	433
65% recovered	446
70% recovered	456
75% recovered	469
80% recovered	483
85% recovered	496
90% recovered	517
95% recovered	544
99% recovered	586

Respectfully submitted
For Texas OilTech Laboratories, L.P.

Ikenna “Ike” Ezeji
Laboratory Director