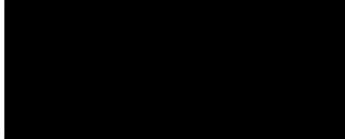




CERTIFICATE OF ANALYSIS

National Transportation Safety Board



Report Date: 4/21/2021
Laboratory ID: A210319009
Sample Type: Av Gas
Sample Date: 3/16/2021
Sample ID: WPR21LA002
Customer PO#: PR2419

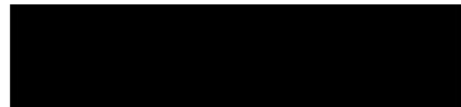
<u>Tests Requested</u>	<u>Result</u>	<u>Units</u>	<u>Test Method</u>	<u>Specification</u>
Lead Content	9665	ppm	ASTM D3237M	
Simulated Distillation See attached report			ASTM D2887M	

Report Prepared by,

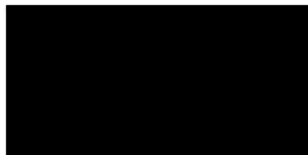


Lab Supervisor

Reviewed and Approved by,



Lab Manager



Product Version Version 6,6,0,0
Company Southern Petroleum Labs--Arlington
Instrument HTSD4
Application ASTM D 2887
Sample name **A210319009**
Method name d2887ca
Sample type D2887CN
Vial 3
Injection 1
Sequence name 0329A.S
Operator dcd
Acquired on 3/29/2021 3 23 PM
Processed on 3/30/2021 9 09 AM
Data File C:\HPCHEM\1\DATA\0329A\003F0701.D\FID1A.CH
Sample (g) 0.0479
Solvent (g) 0.9646
ISTD (g) 0
General Variables
Used Blank 0329A\085F0801.D
Used BP calibrant 0329A\090F0201.D
Used Start elution (min) 0.15
Used End elution (min) 31.377
Total area 3892430
Sample Type Name D2887CN
Solvent start 0.403
Solvent end 0.487
Used Recovery 100

BP Distribution table - Percent

Recovered	BP	BP
mass%	°F	°C
4.4	96.8	36.0
5.0	130.0	54.4
6.0	135.5	57.5
7.0	166.7	74.8
8.0	167.9	75.5
9.0	168.8	76.0
10.0	184.3	84.6
11.0	187.1	86.2
12.0	188.4	86.9
13.0	189.0	87.2
14.0	190.2	87.9
15.0	195.8	91.0
16.0	198.6	92.6
17.0	199.5	93.1
18.0	199.9	93.3
19.0	200.5	93.6
20.0	200.8	93.8
21.0	200.8	93.8
22.0	201.1	93.9
23.0	201.4	94.1
24.0	201.7	94.3
25.0	201.7	94.3
26.0	202.0	94.4
27.0	202.0	94.4
28.0	202.3	94.6
29.0	202.3	94.6
30.0	202.6	94.8
31.0	202.6	94.8
32.0	203.0	95.0
33.0	203.0	95.0
34.0	203.3	95.2
35.0	203.3	95.2
36.0	203.6	95.3
37.0	203.6	95.3
38.0	203.9	95.5
39.0	203.9	95.5
40.0	204.2	95.7
41.0	204.2	95.7
42.0	204.5	95.8
43.0	204.8	96.0
44.0	204.8	96.0
45.0	205.4	96.3
46.0	206.1	96.7
47.0	221.5	105.3
48.0	222.3	105.7
49.0	223.0	106.1
50.0	223.6	106.4
51.0	224.1	106.7
52.0	225.0	107.2
53.0	229.7	109.8

Carbon Number Report

Carbon Number	%wt Cum	%wt	Temp. Eq. Carbon #
0-5	4.37	4.37	97.0
6	6.46	2.09	156.0
7	46.43	39.97	209.0
8	95.72	49.29	259.0
9	98.44	2.71	303.0
10	99.27	0.83	345.0
11	99.49	0.22	385.0
12	99.58	0.09	421.0
13	99.60	0.02	455.0
14	99.61	0.01	489.0
15	99.62	0.01	520.0
16	99.63	0.01	549.0
17	99.63	0.01	576.0
18	99.64	0.00	601.0
19	99.64	0.01	625.0
20	99.65	0.01	651.0
21	99.65	0.01	675.0
22	99.66	0.01	696.0
23	99.67	0.01	716.0
24	99.68	0.02	736.0
25	99.73	0.05	755.0
26	99.77	0.04	774.0
27	99.79	0.01	791.0
28	99.86	0.08	808.0
29	99.88	0.01	824.0
30	99.89	0.01	840.0
31	99.89	0.01	856.0
32	99.90	0.01	871.0
33	99.91	0.01	885.0
34	99.92	0.02	898.0
35	99.97	0.04	912.0
36	99.97	0.01	925.0
37	99.98	0.00	937.0
38	99.98	0.00	948.0
39	99.98	0.00	961.0
40	99.99	0.00	972.0
41	99.99	0.00	982.0
42	99.99	0.00	993.0
43	100.00	0.00	1004.0

54.0	230.6	110 3
55.0	231.1	110.6
56.0	231.6	110 9
57.0	231.8	111 0
58.0	232.2	111 2
59.0	232.3	111 3
60.0	232.7	111 5
61.0	232.9	111.6
62.0	233.0	111.7
63.0	233.2	111 8
64.0	233.2	111 8
65.0	233.4	111 9
66.0	233.6	112 0
67.0	233.7	112.1
68.0	233.7	112.1
69.0	233.9	112 2
70.0	234.1	112 3
71.0	234.1	112 3
72.0	234.3	112.4
73.0	234.4	112.4
74.0	234.4	112.4
75.0	234.6	112.6
76.0	234.6	112.6
77.0	234.8	112.7
78.0	234.8	112.7
79.0	235.0	112 8
80.0	235.0	112 8
81.0	235.2	112 9
82.0	235.3	112 9
83.0	235.3	112 9
84.0	235.5	113.1
85.0	235.7	113 2
86.0	235.9	113 3
87.0	236.0	113 3
88.0	236.6	113.7
89.0	237.3	114.1
90.0	238.3	114.6
91.0	244.5	118.1
92.0	249.0	120.6
93.0	249.7	120 9
94.0	250.4	121 3
95.0	251.3	121 8
96.0	264.4	129.1
97.0	274.0	134.4
98.0	295.7	146 5
99.0	329.9	165 5
99.5	392.9	200 5