

EXTENDED CRUDE OIL ANALYSIS (*DHA)

MAIN PAGE

PRIMARY DB KEY:
LEASE #: **05-057-06606**
FIELD/AREA:

NAME/DESCRIP : **JANET 0780 #3-16H21**
BRADENHEAD - OIL

PROJECT NO. :	202311132	ANALYSIS NO. :	03
COMPANY NAME :	FULCRUM ENERGY OPERATING	ANALYSIS DATE:	NOVEMBER 27, 2023 19:06
OFFICE / BRANCH:	COALMONT, CO	SAMPLE DATE :	NOVEMBER 20, 2023
CUSTOMER REF:		TO:	
PRODUCER :	FULCRUM ENERGY OPERATING LLC	EFFECTIVE DATE:	

*****FIELD DATA*****

SAMPLE CYCLE:		SAMPLE TYPE:	SPOT
SAMPLE PRES. :	psig	PROBE:	
LAB PRES:	psig	CYLINDER NO. :	150CC PLASTIC
SAMPLE TEMP. :	°f	SAMPLED BY :	ABEL RIVERA
AMBIENT TEMP.:	°f	SAMPLING COMPANY:	FULCRUM ENERGY
FIELD COMMENTS:			
LAB COMMENTS:			

COMPONENT	MOLE %	MASS %	VOL %
METHANE	0.3467	0.0292	0.0761
ETHANE	0.1066	0.0168	0.0368
PROPANE	0.2234	0.0518	0.0798
I-BUTANE	0.0429	0.0131	0.0182
N-BUTANE	0.1647	0.0503	0.0673
I-PENTANE	0.0758	0.0287	0.0359
N-PENTANE	0.1190	0.0451	0.0559
HEXANES PLUS	98.9209	99.7650	99.6300
TOTALS	100.0000	100.0000	100.0000

BTEX COMPONENTS	MOLE%	MASS%
BENZENE	0.0244	0.0100
TOLUENE	0.1200	0.0581
ETHYLBENZENE	0.0247	0.0138
XYLENE	0.5175	0.2886
TOTAL BTEX	0.6866	0.3705

	TOTAL SAMPLE	C6+ FRACTION
Specific Gravity (H2O=1) =	0.7827	0.7842 60/60
API Gravity =	49.28	48.94 60/60
Molecular Weight =	100.00	192
Absolute Density =	6.53	6.52 LBS/GAL
Heating Value Liq. Idl Gas=	138411	139031 BTU/GAL
Vapor/Liquid =	13.38	13.33 CUFT/GAL
Vapor Pressure =	18.77	0.05 PSIA @100 F

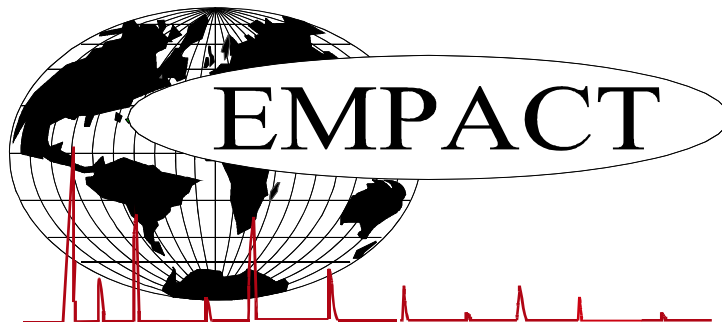
*(DETAILED HYDROCARBON ANALYSIS/NJ 1993)

Mod ASTM D6730, GPA 2177 & GPA 2186.

(CALC: GPA 2172, GPA 2145, GPSA & TP-17 @14.696 & 60 F) **

****Calculated values may error depending on amount of unknown components in DHA, physical testing may be required**

The data presented herein has been acquired by means of current analytical techniques and represents the judicious conclusion EMPACT Analytical Systems, Inc. Results of the analysis can be affected by the sampling conditions, therefore, are only warranted through proper lab protocol. EMPACT assumes no responsibility for interpretation or any consequences from application of the reported information and is the sole liability of the user. The reproduction in any media of this reported information may not be made, in portion or as a whole, without the written permission of EMPACT Analytical Systems, Inc.



EXTENDED CRUDE OIL ANALYSIS (*DHA)

E & P TANK / GLYCALC INFORMATION

PROJECT NO. :	202311132	ANALYSIS NO. :	03
COMPANY NAME :	FULCRUM ENERGY OPERATING	ANALYSIS DATE:	NOVEMBER 27, 2023 19:
ACCOUNT NO. :		SAMPLE DATE :	NOVEMBER 20, 2023
PRODUCER :	FULCRUM ENERGY OPERATING LLC	CYLINDER NO. :	150CC PLASTIC
LEASE NO. :	05-057-06606	SAMPLED BY :	ABEL RIVERA
NAME/DESCRIP :	JANET 0780 #3-16H21		FULCRUM ENERGY
	BRADENHEAD - OIL		

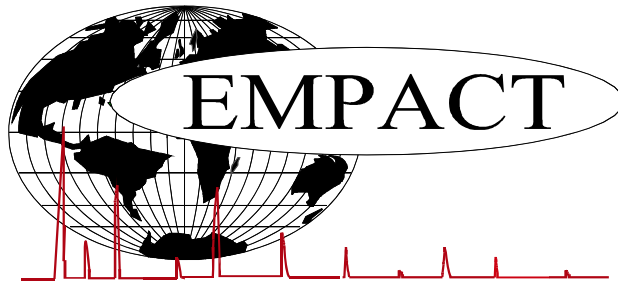
FIELD DATA

SAMPLE PRES. :		SAMPLE TEMP. :	
COMMENTS :	SPOT	AMBIENT TEMP.:	

<u>COMPONENT</u>	<u>Mole %</u>	<u>Wt %</u>	<u>LV %</u>			
METHANE	0.3467	0.0292	0.0761			
ETHANE	0.1066	0.0168	0.0368			
PROPANE	0.2234	0.0518	0.0798			
I-BUTANE	0.0429	0.0131	0.0182			
N-BUTANE	0.1647	0.0503	0.0673			
I-PENTANE	0.0758	0.0287	0.0359			
N-PENTANE	0.1190	0.0451	0.0559			
CYCLOPENTANE (N-C5)	0.0228	0.0084	0.0087			
N-HEXANE	0.1113	0.0504	0.0593			
CYCLOHEXANE (OTHER C6)	0.0782	0.0346	0.0345			
OTHER HEXANES	0.1892	0.0846	0.0936			
OTHER HEPTANES	0.4292	0.2247	0.2464			
METHYLCYCLOHEXANE (OTHER C7)	0.2327	0.1200	0.1211			
2,2,4 TRIMETHYLPENTANE	0.0006	0.0004	0.0004			
BENZENE	0.0244	0.0100	0.0088			
TOLUENE	0.1200	0.0581	0.0521			
ETHYLBENZENE	0.0247	0.0138	0.0124			
XYLENES	0.5174	0.2886	0.2583			
OTHER OCTANES	1.0287	0.6121	0.6457			
OCTANES PLUS	----	97.7131	----	99.1742	----	99.0055
NONANES	3.8050	2.4946	2.4851			
DECANES PLUS	<u>92.3367</u>	<u>95.7647</u>	<u>95.6036</u>			
<u>SUB TOTAL</u>	<u>100.0000</u>	<u>100.0000</u>	<u>100.0000</u>			
<u>TOTAL</u>	<u>100.0000</u>	<u>100.0000</u>	<u>100.0000</u>			

API Gravity	=	49.28	60/60
Vapor Pressure	=	18.77	PSIA & 100 F
Average Molecular Weight of Decanes plus	=	197.42	
Average Specific Gravity of Decanes plus	=	0.7810	

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EXTENDED CRUDE OIL ANALYSIS (*DHA)
BY CARBON NUMBER

PROJECT NO. :	202311132	ANALYSIS NO. :	03
COMPANY NAME :	FULCRUM ENERGY OPERATING	ANALYSIS DATE:	NOVEMBER 27, 2023 19:06
ACCOUNT NO. :		SAMPLE DATE :	NOVEMBER 20, 2023
PRODUCER :	FULCRUM ENERGY OPERATING LLC	CYLINDER NO. :	150CC PLASTIC
LEASE NO. :	05-057-06606	SAMPLED BY :	ABEL RIVERA
NAME/DESCRIP :	JANET 0780 #3-16H21		FULCRUM ENERGY
	BRADENHEAD - OIL		

FIELD DATA	SAMPLE TEMP. :
SAMPLE PRES. :	AMBIENT TEMP.:
COMMENTS : SPOT	

<u>COMPONENT / CARBON NUMBER</u>	<u>MOLE%</u>	<u>MASS %</u>	<u>VOLUME %</u>
C1	0.3467	0.0292	0.0761
C2	0.1066	0.0168	0.0368
C3	0.2234	0.0518	0.0798
C4	0.2076	0.0634	0.0855
C5	0.2176	0.0822	0.1005
C6	0.4031	0.1796	0.1962
C7	0.7819	0.4028	0.4196
C8	1.5714	0.9149	0.9168
C9	3.8050	2.4946	2.4851
C10	11.9777	8.7033	8.4306
C11	12.5537	10.0137	9.8435
C12	13.1604	11.1171	11.1788
C13	8.6008	8.1876	8.3346
C14	11.3531	11.8329	12.0626
C15	2.0530	2.2910	2.3175
C16	9.0562	10.7734	10.8280
C17	7.0899	8.9567	8.9744
C18	9.2397	12.3525	12.3408
C19	0.9107	1.2847	1.2753
C20	2.2736	3.3507	3.2796
C21	1.5211	2.3700	2.3277
C22	0.2906	0.4742	0.4641
C23	1.3200	2.2512	2.1971
C24	0.3757	0.6684	0.6507
C25	0.1526	0.2827	0.2751
C26	0.1178	0.2270	0.2195
C27	0.0785	0.1570	0.1517
C28	0.0719	0.1492	0.1439
C29	0.0524	0.1125	0.1082
C30	0.0143	0.0317	0.0304
C31	0.0253	0.0583	0.0559
C32	0.0176	0.0417	0.0399
C33	0.0091	0.0222	0.0212
C34	0.0062	0.0156	0.0149
C35	0.0046	0.0118	0.0113
C36	0.0050	0.0132	0.0126
C37	0.0036	0.0099	0.0094
C38	0.0016	0.0045	0.0043
C39	0.0000	0.0000	0.0000
C40	0.0000	0.0000	0.0000
C41+	0.0000	0.0000	0.0000
Total	100.0000	100.0000	100.0000

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2,3-Dimethylhexane	I8	0.0199	0.0119	0.0130
2-Methyl-3-ethylpentane	I8	0.0068	0.0041	0.0044
2-Methylheptane	I8	0.0940	0.0564	0.0626
4-Methylheptane	I8	0.0276	0.0165	0.0182
3-Methyl-3-ethylpentane	I8	0.0036	0.0022	0.0024
3,4-Dimethylhexane	I8	0.0045	0.0027	0.0029
1c,2c,4-Trimethylcyclopentane	N8	0.0022	0.0013	0.0013
1c,3-Dimethylcyclohexane	N8	0.0022	0.0013	0.0013
3-Methylheptane	I8	0.0544	0.0326	0.0359
1c,2t,3-Trimethylcyclopentane	N8	0.1138	0.0671	0.0676
3-Ethylhexane	I8	0.0081	0.0049	0.0053
1t,4-Dimethylcyclohexane	N8	0.0403	0.0237	0.0241
1,1-Dimethylcyclohexane	N8	0.0112	0.0066	0.0066
2,2,5-Trimethylhexane	I9	0.0006	0.0004	0.0004
3c-Ethylmethylcyclopentane	N8	0.0123	0.0073	0.0074
3t-Ethylmethylcyclopentane	N8	0.0112	0.0066	0.0067
2t-Ethylmethylcyclopentane	N8	0.0234	0.0138	0.0139
1,1-Methylethylcyclopentane	N8	0.0068	0.0040	0.0040
2,2,4-Trimethylhexane	I9	0.0041	0.0027	0.0029
1t,2-Dimethylcyclohexane	N8	0.0748	0.0441	0.0442
1t,3-Dimethylcyclohexane	N8	0.0030	0.0018	0.0018
n-Octane	P8	0.2621	0.1573	0.1739
1c,4-Dimethylcyclohexane	N8	0.0347	0.0205	0.0203
i-Propylcyclopentane	I8	0.0079	0.0046	0.0046
2,4,4-Trimethylhexane	I9	0.0008	0.0006	0.0006
2,2,3,4-Tetramethylpentane	I9	0.0041	0.0028	0.0030
2,3,4-Trimethylhexane	I9	0.0035	0.0024	0.0026
1c,2-Dimethylcyclohexane	N8	0.0072	0.0043	0.0042
2,3,5-Trimethylhexane	I9	0.0048	0.0033	0.0035
2,2-Dimethylheptane	I9	0.0396	0.0267	0.0292
1,1,4-Trimethylcyclohexane	N9	0.1541	0.1022	0.1028
2,4-Dimethylheptane	I9	0.0088	0.0059	0.0064
4,4-Dimethylheptane	I9	0.0039	0.0026	0.0028
Ethylcyclohexane	N8	0.0478	0.0282	0.0278
n-Propylcyclopentane	N8	0.0819	0.0483	0.0483
1c,3c,5-Trimethylcyclohexane	N9	0.0105	0.0070	0.0070
2,5-Dimethylheptane	I9	0.0296	0.0199	0.0216
3,5-Dimethylheptane	I9	0.0077	0.0052	0.0056
2,6-Dimethylheptane	I9	0.0109	0.0074	0.0081
1,1,3-Trimethylcyclohexane	N9	0.0057	0.0038	0.0037
Ethylbenzene	A8	0.0247	0.0138	0.0124
1c,2t,4t-Trimethylcyclohexane	N9	0.0019	0.0013	0.0013
2,3-Dimethylheptane	I9	0.0067	0.0045	0.0048
1,3-Dimethylbenzene (m-Xylene)	A8	0.2935	0.1637	0.1472
1,4-Dimethylbenzene (p-Xylene)	A8	0.0722	0.0403	0.0364
3,4-Dimethylheptane	I9	0.0069	0.0046	0.0049
3,4-Dimethylheptane (2)	I9	0.0274	0.0184	0.0195
4-Ethylheptane	I9	0.0140	0.0094	0.0102
4-Methyloctane	I9	0.0677	0.0456	0.0491
2-Methyloctane	I9	0.0821	0.0553	0.0602
1c,2t,4c-Trimethylcyclohexane	I9	0.1296	0.0860	0.0920
3-Ethylheptane	I9	0.0299	0.0201	0.0215
3-Methyloctane	I9	0.0182	0.0122	0.0132
3,3-Diethylpentane	I9	0.0181	0.0122	0.0126
1c,2t,3-Trimethylcyclohexane	N9	0.0123	0.0081	0.0080
1,1,2-Trimethylcyclohexane	N9	0.0184	0.0122	0.0119
1,2-Dimethylbenzene (o-Xylene)	A8	0.1517	0.0846	0.0747
i-Butylcyclopentane	N9	0.1351	0.0896	0.0896
n-Nonane	P9	0.5587	0.3765	0.4072
1,1-Methylethylcyclohexane	N9	0.1278	0.0848	0.0920
i-Propylbenzene	A9	0.1067	0.0674	0.0608
i-Propylcyclohexane	N9	0.0570	0.0378	0.0366
2,2-Dimethyloctane	I10	0.0309	0.0231	0.0248
2,4-Dimethyloctane	I10	0.0501	0.0375	0.0394
2,6-Dimethyloctane	I10	0.0199	0.0149	0.0162
2,5-Dimethyloctane	I10	0.0094	0.0070	0.0074
n-Butylcyclopentane	N9	0.2237	0.1484	0.1431
3,3-Dimethyloctane	I10	0.0583	0.0436	0.0458
n-Propylbenzene	A9	0.2377	0.1501	0.1353
3,6-Dimethyloctane	I10	0.1496	0.1118	0.1179
3-Methyl-5-ethylheptane	I10	0.1491	0.1115	0.1193
1,3-Methylethylbenzene	A9	0.2891	0.1825	0.1628
1,4-Methylethylbenzene	A9	0.1165	0.0735	0.0656
1,3,5-Trimethylbenzene	A9	0.2804	0.1771	0.1591
2,3-Dimethyloctane	I10	0.0753	0.0563	0.0593
5-Methylnonane	I10	0.2733	0.2043	0.2166
2-Methylnonane	I10	0.4190	0.3132	0.3349
3-Ethyloctane	I10	0.0816	0.0610	0.0641
3-Methylnonane	I10	0.3300	0.2467	0.2613

1,2,4-Trimethylbenzene	A9	0.0067	0.0042	0.0037
t-Butylbenzene	A10	0.8310	0.5860	0.5256
i-Butylcyclohexane	N10	0.2534	0.1867	0.1784
1t-Methyl-2-n-propylcyclohexane	I10	0.1170	0.0862	0.0923
i-Butylbenzene	A10	0.1431	0.1009	0.0919
sec-Butylbenzene	A10	0.1519	0.1071	0.0965
UnknownC9s	U9	0.5663	0.3816	0.4127
n-Decane	P10	1.7109	1.2789	1.3600
1,2,3-Trimethylbenzene	A9	0.3774	0.2383	0.2072
1,3-Methyl-i-propylbenzene	A10	0.1863	0.1314	0.1166
1,4-Methyl-i-propylbenzene	A10	0.6295	0.4439	0.3939
Sec-Butylcyclohexane	N10	0.0235	0.0173	0.0165
1,2-Methyl-i-propylbenzene	A10	0.3759	0.2651	0.2351
3-Ethylnonane	I10	0.2888	0.2372	0.2536
1,3-Diethylbenzene	A10	0.1695	0.1195	0.1075
1,3-Methyl-n-propylbenzene	A10	0.4648	0.3277	0.2958
1,4-Diethylbenzene	A10	0.2002	0.1412	0.1273
1,4-Methyl-n-propylbenzene	A10	0.0686	0.0484	0.0438
n-Butylbenzene	A10	0.1673	0.1180	0.1066
1,3-Dimethyl-5-ethylbenzene	A10	0.3359	0.2369	0.2129
1,2-Diethylbenzene	A10	0.1249	0.0881	0.0778
1,2-Methyl-n-propylbenzene	A10	0.3575	0.2521	0.2243
1,3-Dimethyl-4-ethylbenzene	A10	0.6627	0.4673	0.4145
1,2-Dimethyl-4-ethylbenzene	A10	0.2803	0.1977	0.1757
1,3-Dimethyl-2-ethylbenzene	A10	0.5916	0.4171	0.3641
1,2-Dimethyl-3-ethylbenzene	A10	0.1929	0.1360	0.1185
1,2-Ethyl-i-propylbenzene	A10	0.2052	0.1598	0.1417
1,4-Methyl-t-butylbenzene	A11	0.3082	0.2400	0.2128
UnknownC10s	U10	1.3677	1.0223	1.0871
n-Undecane	P11	2.7394	2.2495	2.3614
1,4-Ethyl-i-propylbenzene	A11	0.5627	0.4382	0.3885
1,2,4,5-Tetramethylbenzene	A11	0.1634	0.1152	0.1009
1,2-Methyl-n-butylbenzene	A11	0.3448	0.2685	0.2381
1,2,3,5-Tetramethylbenzene	A11	0.3402	0.2399	0.2095
1,2-Methyl-t-butylbenzene	A11	0.0096	0.0075	0.0066
5-Methylindan	A11	0.2590	0.1799	0.1867
4-Methylindan	A11	0.1603	0.1114	0.1156
1,2-Ethyl-n-propylbenzene	A11	0.0858	0.0668	0.0592
2-Methylindan	A11	0.2736	0.1900	0.1972
1,3-Methyl-n-butylbenzene	A11	0.1675	0.1305	0.1157
1,3-Di-i-propylbenzene	A11	0.2877	0.2452	0.2174
sec-Pentylbenzene	A11	0.2685	0.2091	0.1893
n-Pentylbenzene	A11	0.3678	0.2865	0.2594
1,4-Di-i-propylbenzene	A11	0.3895	0.3320	0.2944
Tetrahydronaphthalene	A10	0.1280	0.0889	0.0788
t-Decahydronaphthalene	A10	0.0504	0.0408	0.0362
Naphthalene	A10	0.2524	0.1699	0.1506
1-t-Butyl-3,5-dimethylbenzene	A12	0.1766	0.1506	0.1350
1,4-Ethyl-t-butylbenzene	A11	0.4348	0.3707	0.3287
UnknownC11s	U11	4.1206	3.3838	3.5521
n-Dodecane	P12	2.6741	2.3929	2.4835
1,3-Di-n-propylbenzene	A12	0.4334	0.3695	0.3276
1,3,5-Triethylbenzene	A12	1.1223	0.9567	0.8636
1,2,4-Triethylbenzene	A12	0.3013	0.2568	0.2284
1,4-Methyl-n-pentylbenzene	A12	0.3415	0.2911	0.2581
n-Hexylbenzene	A12	1.2294	1.0481	0.9501
1,2,3,4,5-Pentamethylbenzene	A13	0.7523	0.5858	0.5194
2-Methylnaphthalene	A11	0.9322	0.6964	0.6175
1-Methylnaphthalene	A11	0.3381	0.2526	0.1925
UnknownC12s	U12	6.8818	5.6514	5.9325
n-Tridecane	P13	2.4343	2.3578	2.4240
UnknownC13s	U13	5.4142	5.2440	5.3912
n-Tetradecane	P14	2.9238	3.0473	3.1064
UnknownC14s	U14	8.4293	8.7856	8.9562
n-Pentadecane	P15	2.0530	2.2910	2.3175
n-Hexadecane	P16	1.8139	2.1578	2.1687
UnknownC16s	U16	7.2423	8.6156	8.6593
n-Heptadecane	P17	1.4852	1.8762	1.8799
UnknownC17s	U17	5.6047	7.0805	7.0945
n-Octadecane	P18	1.0683	1.4283	1.4269
UnknownC18s	U18	8.1714	10.9242	10.9139
n-Nonadecane	P19	0.9107	1.2847	1.2753
n-Eicosane	P20	0.6009	0.8855	0.8667
UnknownC20s	U20	1.6727	2.4652	2.4129
n-Heneicosane	P21	0.4028	0.6276	0.6164
UnknownC21s	U21	1.1183	1.7424	1.7113
n-Docosane	P22	0.2906	0.4742	0.4641
n-Tricosane	P23	0.1628	0.2776	0.2709
UnknownC23s	U23	1.1572	1.9736	1.9262

n-Tetracosane	P24	0.0958	0.1704	0.1659
UnknownC24s	U24	0.2799	0.4980	0.4848
n-Pentacosane	P25	0.0580	0.1074	0.1045
UnknownC25s	U25	0.0946	0.1753	0.1706
n-Hexacosane	P26	0.0438	0.0845	0.0817
UnknownC26s	U26	0.0740	0.1425	0.1378
n-Heptacosane	P27	0.0292	0.0583	0.0563
UnknownC27s	U27	0.0493	0.0987	0.0954
n-Octacosane	P28	0.0203	0.0422	0.0407
UnknownC28s	U28	0.0516	0.1070	0.1032
n-Nonacosane	P29	0.0183	0.0393	0.0378
UnknownC29s	U29	0.0341	0.0732	0.0704
n-Triacontane	P30	0.0134	0.0297	0.0285
UnknownC30s	U30	0.0009	0.0020	0.0019
n-Hentriacontane	P31	0.0117	0.0270	0.0259
UnknownC31s	U31	0.0136	0.0313	0.0300
n-Dotriacontane	P32	0.0096	0.0227	0.0217
UnknownC32s	U32	0.0080	0.0190	0.0182
n-Tritriacontane	P33	0.0091	0.0222	0.0212
n-Tetratriacontane	P34	0.0062	0.0156	0.0149
n-Pentatriacontane	P35	0.0046	0.0118	0.0113
n-Hexatriacontane	P36	0.0050	0.0132	0.0126
n-Heptatriacontane	P37	0.0036	0.0099	0.0094
n-Octatriacontane	P38	0.0016	0.0045	0.0043
TOTAL		100.0000	100.0000	100.0000

BTEX COMPONENTS	MOLE%	MASS%
BENZENE	0.0244	0.0100
TOLUENE	0.1200	0.0581
ETHYLBENZENE	0.0247	0.0138
XYLENE	0.5175	0.2886
TOTAL BTEX	0.6866	0.3705

Specific Gravity (H2O=1) =	0.7827
API Gravity =	49.28
Molecular Weight =	100.00
Absolute Density =	6.53
Heating Value Liq. Idl Gas=	138411
Vapor/Liquid =	13.38
Vapor Pressure =	18.77

TOTAL SAMPLE	C6+ FRACTION
0.7842	60/60
48.94	60/60
192	
6.52	LBS/GAL
139031	BTU/GAL
13.33	CUFT/GAL
0.05	PSIA @100 F

*(DETAILED HYDROCARBON ANALYSIS/NJ 1993)

Mod ASTM D6730, GPA 2177 & GPA 2186.

(CALC: GPA 2172, GPA 2145, GPSA & TP-17 @14.696 & 60 F)**

****Calculated values may error depending on amount of unknown components in DHA, physical testing may be required.**

The data presented herein has been acquired by means of current analytical techniques and represents the judicious conclusion EMPACT Analytical Systems, Inc.

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