

**EXTENDED CRUDE OIL ANALYSIS (\*DHA)  
MAIN PAGE**

PRIMARY DB KEY:  
LEASE #: **05-057-06545**  
FIELD/AREA:

NAME/DESCRIP : **HEBRON #0780 4-7H  
BRADENHEAD - OIL**

PROJECT NO. :	<b>202311132</b>	ANALYSIS NO. :	<b>06</b>
COMPANY NAME :	<b>FULCRUM ENERGY OPERATING</b>	ANALYSIS DATE:	NOVEMBER 28, 2023 01:53
OFFICE / BRANCH:	COALMONT, CO	SAMPLE DATE :	NOVEMBER 20, 2023
CUSTOMER REF:		TO:	
PRODUCER :	FULCRUM ENERGY OPERATING LLC	EFFECTIVE DATE:	
<b>***FIELD DATA***</b>			
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 %
ALCOHOLS	0.0136	0.0023	0.0023
METHANE	0.0204	0.0017	0.0045
ETHANE	0.0081	0.0013	0.0029
PROPANE	0.0160	0.0037	0.0057
I-BUTANE	0.0037	0.0011	0.0015
N-BUTANE	0.0159	0.0049	0.0066
I-PENTANE	0.0094	0.0036	0.0045
N-PENTANE	0.0121	0.0046	0.0057
HEXANES PLUS	99.9008	99.9768	99.9663
TOTALS	100.0000	100.0000	100.0000

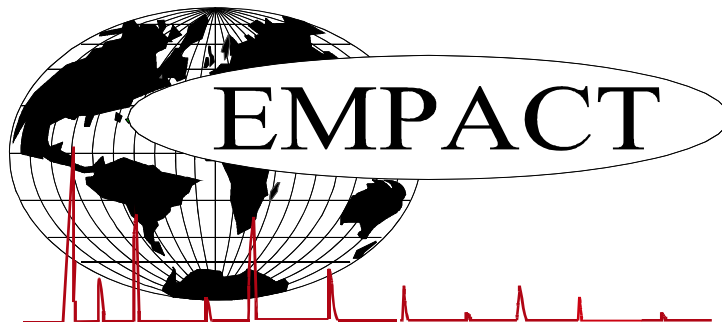
BTEX COMPONENTS	MOLE%	MASS%
BENZENE	0.0042	0.0017
TOLUENE	0.0568	0.0275
ETHYLBENZENE	0.1311	0.0732
XYLENE	0.4232	0.2365
TOTAL BTEX	0.6153	0.3389

	TOTAL SAMPLE	C6+ FRACTION
Specific Gravity (H2O=1) =	0.7877	0.7877 60/60
API Gravity =	48.14	48.14 60/60
Molecular Weight =	100.00	190.175
Absolute Density =	6.57	6.55 LBS/GAL
Heating Value Liq. Idl Gas=	136816	138041 BTU/GAL
Vapor/Liquid =	13.20	13.31 CUFT/GAL
Vapor Pressure =	1.12	0.02 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. :	06
COMPANY NAME :	FULCRUM ENERGY OPERATING	ANALYSIS DATE:	NOVEMBER 28, 2023 01:
ACCOUNT NO. :		SAMPLE DATE :	NOVEMBER 20, 2023
PRODUCER :	FULCRUM ENERGY OPERATING LLC	CYLINDER NO. :	150CC PLASTIC
LEASE NO. :	05-057-06545	SAMPLED BY :	ABEL RIVERA
NAME/DESCRIP :	HEBRON #0780 4-7H BRADENHEAD - OIL		FULCRUM ENERGY

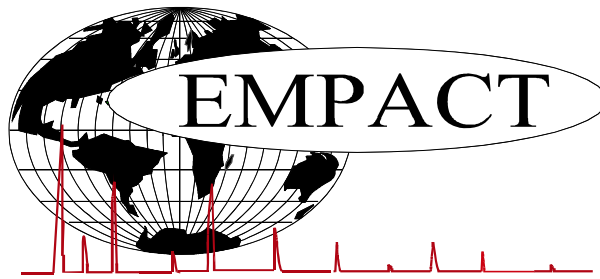
\*\*\*FIELD DATA\*\*\*

SAMPLE PRES. :		SAMPLE TEMP. :	
COMMENTS :	<b>SPOT</b>	AMBIENT TEMP.:	

<u>COMPONENT</u>	<u>Mole %</u>	<u>Wt %</u>	<u>LV %</u>			
METHANE	0.0204	0.0017	0.0045			
ETHANE	0.0081	0.0013	0.0029			
PROPANE	0.0160	0.0037	0.0057			
I-BUTANE	0.0037	0.0011	0.0015			
N-BUTANE	0.0159	0.0049	0.0066			
I-PENTANE	0.0094	0.0036	0.0045			
N-PENTANE	0.0121	0.0046	0.0057			
CYCLOPENTANE (N-C5)	0.0021	0.0008	0.0008			
N-HEXANE	0.0135	0.0061	0.0072			
CYCLOHEXANE (OTHER C6)	0.0172	0.0076	0.0076			
OTHER HEXANES	0.0286	0.0129	0.0142			
OTHER HEPTANES	0.1149	0.0602	0.0662			
METHYLCYCLOHEXANE (OTHER C7)	0.0880	0.0455	0.0462			
2,2,4 TRIMETHYLPENTANE	0.0005	0.0003	0.0003			
BENZENE	0.0042	0.0017	0.0015			
TOLUENE	0.0568	0.0275	0.0248			
ETHYLBENZENE	0.1311	0.0732	0.0659			
XYLENES	0.4232	0.2365	0.2127			
OTHER OCTANES	0.6412	0.3820	0.4028			
OCTANES PLUS	----	99.5755	----	99.8145	----	99.7978
NONANES	3.6740	2.4076	2.3952			
DECANES PLUS	<u>94.7055</u>	<u>96.7149</u>	<u>96.7209</u>			
SUB TOTAL	99.9864	99.9977	99.9977			
ALCOHOLS	<u>0.0136</u>	<u>0.0023</u>	<u>0.0023</u>			
TOTAL	<u>100.0000</u>	<u>100.0000</u>	<u>100.0000</u>			

API Gravity	=	<b>48.14</b>	60/60
Vapor Pressure	=	<b>1.12</b>	PSIA & 100 F
Average Molecular Weight of Decanes plus	=	<b>194.06</b>	
Average Specific Gravity of Decanes plus	=	<b>0.7880</b>	

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**EXTENDED CRUDE OIL ANALYSIS (\*DHA)**

**BY CARBON NUMBER**

PROJECT NO. :	202311132	ANALYSIS NO. :	06
COMPANY NAME :	FULCRUM ENERGY OPERATING	ANALYSIS DATE:	NOVEMBER 28, 2023 01:53
ACCOUNT NO. :		SAMPLE DATE :	NOVEMBER 20, 2023
PRODUCER :	FULCRUM ENERGY OPERATING LLC	CYLINDER NO. :	150CC PLASTIC
LEASE NO. :	05-057-06545	SAMPLED BY :	ABEL RIVERA
NAME/DESCRIP :	HEBRON #0780 4-7H BRADENHEAD - OIL		FULCRUM ENERGY

***FIELD DATA***	SAMPLE TEMP. :
SAMPLE PRES. :	AMBIENT TEMP.:
COMMENTS : <b>SPOT</b>	

<u>COMPONENT / CARBON NUMBER</u>	<u>MOLE%</u>	<u>MASS %</u>	<u>VOLUME %</u>
ALCOHOLS	0.0136	0.0023	0.0023
C1	0.0204	0.0017	0.0045
C2	0.0081	0.0013	0.0029
C3	0.0160	0.0037	0.0057
C4	0.0196	0.0060	0.0081
C5	0.0236	0.0090	0.0110
C6	0.0635	0.0283	0.0305
C7	0.2597	0.1332	0.1372
C8	1.1960	0.6920	0.6817
C9	3.6740	2.4076	2.3952
C10	13.6774	9.9626	9.7224
C11	15.7356	12.4887	12.1629
C12	12.3798	10.5412	10.5619
C13	9.1232	8.6836	8.8771
C14	5.0556	5.2782	5.4093
C15	8.0439	8.9918	9.1441
C16	8.9076	10.6143	10.7248
C17	6.8448	8.6618	8.7250
C18	8.7013	11.6510	11.7028
C19	0.8774	1.2398	1.2372
C20	2.0944	3.0920	3.0425
C21	1.2610	1.9682	1.9434
C22	0.2813	0.4597	0.4523
C23	0.9784	1.6714	1.6399
C24	0.3208	0.5718	0.5596
C25	0.1494	0.2774	0.2714
C26	0.1288	0.2486	0.2417
C27	0.0107	0.0215	0.0209
C28	0.0461	0.0958	0.0929
C29	0.0395	0.0851	0.0823
C30	0.0255	0.0566	0.0546
C31	0.0166	0.0380	0.0367
C32	0.0030	0.0072	0.0069
C33	0.0021	0.0051	0.0049
C34	0.0009	0.0024	0.0023
C35	0.0004	0.0011	0.0011
C36	0.0000	0.0000	0.0000
C37	0.0000	0.0000	0.0000
C38	0.0000	0.0000	0.0000
C39	0.0000	0.0000	0.0000
C40	0.0000	0.0000	0.0000
C41+	0.0000	0.0000	0.0000
<b>Total</b>	<b>100.0000</b>	<b>100.0000</b>	<b>100.0000</b>

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Toluene	A7	0.0568	0.0275	0.0248
2,3-Dimethylhexane	I8	0.0122	0.0073	0.0080
2-Methyl-3-ethylpentane	I8	0.0042	0.0025	0.0027
1,1,2-Trimethylcyclopentane	N8	0.0002	0.0001	0.0001
2-Methylheptane	I8	0.0481	0.0289	0.0323
4-Methylheptane	I8	0.0196	0.0118	0.0131
3-Methyl-3-ethylpentane	I8	0.0046	0.0028	0.0030
3,4-Dimethylhexane	I8	0.0060	0.0036	0.0039
1c,2c,4-Trimethylcyclopentane	N8	0.0016	0.0010	0.0010
1c,3-Dimethylcyclohexane	N8	0.0015	0.0009	0.0009
3-Methylheptane	I8	0.0339	0.0204	0.0226
1c,2t,3-Trimethylcyclopentane	N8	0.0652	0.0385	0.0390
3-Ethylhexane	I8	0.0066	0.0039	0.0043
1t,4-Dimethylcyclohexane	N8	0.0213	0.0126	0.0129
1,1-Dimethylcyclohexane	N8	0.0068	0.0040	0.0040
2,2,5-Trimethylhexane	I9	0.0010	0.0007	0.0008
3c-Ethylmethylcyclopentane	N8	0.0105	0.0062	0.0063
3t-Ethylmethylcyclopentane	N8	0.0094	0.0056	0.0057
2t-Ethylmethylcyclopentane	N8	0.0162	0.0096	0.0097
2,2,4-Trimethylhexane	I9	0.0021	0.0014	0.0015
1t,2-Dimethylcyclohexane	N8	0.0401	0.0237	0.0239
1t,3-Dimethylcyclohexane	N8	0.0020	0.0012	0.0012
UnknownC7s	U7	0.0004	0.0002	0.0002
n-Octane	P8	0.1444	0.0868	0.0965
1c,4-Dimethylcyclohexane	N8	0.0334	0.0197	0.0196
i-Propylcyclopentane	I8	0.0084	0.0050	0.0050
2,4,4-Trimethylhexane	I9	0.0004	0.0003	0.0003
2,2,3,4-Tetramethylpentane	I9	0.0024	0.0016	0.0017
2,3,4-Trimethylhexane	I9	0.0028	0.0019	0.0021
1c,2-Dimethylcyclohexane	N8	0.0072	0.0042	0.0041
2,3,5-Trimethylhexane	I9	0.0039	0.0027	0.0029
2,2-Dimethylheptane	I9	0.0324	0.0219	0.0241
1,1,4-Trimethylcyclohexane	N9	0.1115	0.0741	0.0750
2,2,3-Trimethylhexane	I9	0.0070	0.0047	0.0050
2,4-Dimethylheptane	I9	0.0066	0.0045	0.0049
4,4-Dimethylheptane	I9	0.0042	0.0028	0.0031
Ethylcyclohexane	N8	0.0436	0.0258	0.0256
n-Propylcyclopentane	N8	0.0663	0.0391	0.0393
1c,3c,5-Trimethylcyclohexane	N9	0.0076	0.0051	0.0052
2,5-Dimethylheptane	I9	0.0326	0.0220	0.0240
3,3-Dimethylheptane	I9	0.0075	0.0051	0.0055
3,5-Dimethylheptane	I9	0.0083	0.0056	0.0060
2,6-Dimethylheptane	I9	0.0150	0.0101	0.0111
1,1,3-Trimethylcyclohexane	N9	0.0181	0.0120	0.0117
Ethylbenzene	A8	0.1311	0.0732	0.0659
1c,2t,4t-Trimethylcyclohexane	N9	0.0052	0.0034	0.0034
2,3-Dimethylheptane	I9	0.0105	0.0071	0.0076
1,3-Dimethylbenzene (m-Xylene)	A8	0.2302	0.1286	0.1162
1,4-Dimethylbenzene (p-Xylene)	A8	0.0640	0.0358	0.0325
3,4-Dimethylheptane	I9	0.0108	0.0073	0.0078
3,4-Dimethylheptane (2)	I9	0.0233	0.0158	0.0169
4-Ethylheptane	I9	0.0201	0.0136	0.0148
4-Methyloctane	I9	0.0707	0.0477	0.0517
2-Methyloctane	I9	0.0795	0.0537	0.0588
1c,2t,4c-Trimethylcyclohexane	I9	0.1499	0.0996	0.1072
3-Ethylheptane	I9	0.0326	0.0220	0.0236
3-Methyloctane	I9	0.0223	0.0151	0.0164
3,3-Diethylpentane	I9	0.0200	0.0135	0.0140
1c,2t,3-Trimethylcyclohexane	N9	0.0126	0.0083	0.0082
1,1,2-Trimethylcyclohexane	N9	0.0249	0.0166	0.0162
1,2-Dimethylbenzene (o-Xylene)	A8	0.1290	0.0721	0.0640
i-Butylcyclopentane	N9	0.1342	0.0891	0.0896
UnknownC8s	U8	0.0030	0.0018	0.0020
n-Nonane	P9	0.5527	0.3730	0.4056
1,1-Methylethylcyclohexane	N9	0.1371	0.0911	0.0994
i-Propylbenzene	A9	0.0943	0.0596	0.0540
i-Propylcyclohexane	N9	0.0605	0.0402	0.0391
2,2-Dimethyloctane	I10	0.0384	0.0288	0.0310
2,4-Dimethyloctane	I10	0.0231	0.0173	0.0183
2,6-Dimethyloctane	I10	0.0519	0.0389	0.0424
2,5-Dimethyloctane	I10	0.0500	0.0374	0.0395
n-Butylcyclopentane	N9	0.2390	0.1588	0.1539
3,3-Dimethyloctane	I10	0.0792	0.0593	0.0627
n-Propylbenzene	A9	0.3017	0.1908	0.1729
3,6-Dimethyloctane	I10	0.1599	0.1197	0.1269
3-Methyl-5-ethylheptane	I10	0.1483	0.1111	0.1195
1,3-Methylethylbenzene	A9	0.2810	0.1777	0.1594
1,4-Methylethylbenzene	A9	0.1157	0.0732	0.0657
1,3,5-Trimethylbenzene	A9	0.2983	0.1887	0.1704

2,3-Dimethyloctane	I10	0.0911	0.0682	0.0722
5-Methylnonane	I10	0.3235	0.2422	0.2582
1,2-Methylethylbenzene	A9	0.0114	0.0072	0.0064
2-Methylnonane	I10	0.4708	0.3525	0.3789
3-Ethyl-octane	I10	0.0887	0.0664	0.0701
3-Methylnonane	I10	0.3984	0.2983	0.3176
1,2,4-Trimethylbenzene	A9	0.0080	0.0051	0.0046
t-Butylbenzene	A10	0.8759	0.6187	0.5578
i-Butylcyclohexane	N10	0.2953	0.2180	0.2095
1t-Methyl-2-n-propylcyclohexane	I10	0.1375	0.1015	0.1092
i-Butylbenzene	A10	0.1572	0.1110	0.1016
sec-Butylbenzene	A10	0.1622	0.1146	0.1039
UnknownC9s	U9	0.3252	0.2195	0.2387
n-Decane	P10	1.9893	1.4895	1.5924
1,2,3-Trimethylbenzene	A9	0.3691	0.2334	0.2040
1,3-Methyl-i-propylbenzene	A10	0.1630	0.1152	0.1028
1,4-Methyl-i-propylbenzene	A10	0.7510	0.5305	0.4733
Sec-Butylcyclohexane	N10	0.0281	0.0208	0.0200
1,2-Methyl-i-propylbenzene	A10	0.4712	0.3329	0.2967
3-Ethyl-nonane	I10	0.3099	0.2549	0.2740
1,3-Diethylbenzene	A10	0.1993	0.1408	0.1273
1,3-Methyl-n-propylbenzene	A10	0.4810	0.3397	0.3083
1,4-Diethylbenzene	A10	0.1749	0.1236	0.1120
1,4-Methyl-n-propylbenzene	A10	0.3994	0.2821	0.2567
n-Butylbenzene	A10	0.1786	0.1261	0.1145
1,3-Dimethyl-5-ethylbenzene	A10	0.3065	0.2165	0.1956
1,2-Diethylbenzene	A10	0.2779	0.1963	0.1743
1,2-Methyl-n-propylbenzene	A10	0.3910	0.2762	0.2470
1,3-Dimethyl-4-ethylbenzene	A10	0.7079	0.5000	0.4458
1,2-Dimethyl-4-ethylbenzene	A10	0.2533	0.1789	0.1599
1,3-Dimethyl-2-ethylbenzene	A10	0.6732	0.4755	0.4173
1,2-Dimethyl-3-ethylbenzene	A10	0.1688	0.1193	0.1045
1,2-Ethyl-i-propylbenzene	A10	0.2139	0.1668	0.1487
1,4-Methyl-t-butylbenzene	A11	0.1461	0.1140	0.1016
UnknownC10s	U10	1.6458	1.2323	1.3174
n-Undecane	P11	3.3863	2.7855	2.9396
1,4-Ethyl-i-propylbenzene	A11	0.5613	0.4379	0.3903
1,2,4,5-Tetramethylbenzene	A11	0.1874	0.1324	0.1166
1,2-Methyl-n-butylbenzene	A11	0.5616	0.4381	0.3905
1,2,3,5-Tetramethylbenzene	A11	0.6700	0.4733	0.4155
1,2-Methyl-t-butylbenzene	A11	0.2285	0.1783	0.1589
5-Methylindan	A11	0.4085	0.2842	0.2965
4-Methylindan	A11	0.2598	0.1807	0.1885
1,2-Ethyl-n-propylbenzene	A11	0.4595	0.3584	0.3195
2-Methylindan	A11	0.2757	0.1918	0.2001
1,3-Methyl-n-butylbenzene	A11	0.1440	0.1124	0.1002
1,3-Di-i-propylbenzene	A11	0.3348	0.2859	0.2548
sec-Pentylbenzene	A11	0.2449	0.1911	0.1739
n-Pentylbenzene	A11	0.4125	0.3218	0.2929
1,2-Di-n-propylbenzene	A11	0.4152	0.3545	0.3160
1,4-Di-i-propylbenzene	A11	0.1009	0.0861	0.0767
Tetrahydronaphthalene	A10	0.0930	0.0647	0.0577
t-Decahydronaphthalene	A10	0.0596	0.0484	0.0431
Naphthalene	A10	0.1894	0.1277	0.1138
1-t-Butyl-3,5-dimethylbenzene	A12	0.4901	0.4185	0.3771
1,4-Ethyl-t-butylbenzene	A11	0.3989	0.3407	0.3037
UnknownC11s	U11	4.4149	3.6316	3.8325
n-Dodecane	P12	3.1497	2.8234	2.9459
1,3-Di-n-propylbenzene	A12	0.4245	0.3625	0.3231
1,3,5-Triethylbenzene	A12	1.2029	1.0272	0.9322
1,2,4-Triethylbenzene	A12	0.2929	0.2502	0.2237
1,4-Methyl-n-pentylbenzene	A12	1.0487	0.8955	0.7982
n-Hexylbenzene	A12	0.5354	0.4572	0.4167
1,2,3,4,5-Pentamethylbenzene	A13	0.8824	0.6884	0.6136
2-Methylnaphthalene	A11	0.8157	0.6104	0.5441
1-Methylnaphthalene	A11	1.3091	0.9796	0.7505
UnknownC12s	U12	5.2356	4.3067	4.5450
n-Tridecane	P13	2.9179	2.8309	2.9259
UnknownC13s	U13	5.3229	5.1643	5.3376
n-Tetradecane	P14	3.0202	3.1532	3.2315
UnknownC14s	U14	2.0354	2.1250	2.1778
n-Pentadecane	P15	2.4250	2.7108	2.7567
UnknownC15s	U15	5.6189	6.2810	6.3874
n-Hexadecane	P16	1.8713	2.2298	2.2530
UnknownC16s	U16	7.0363	8.3845	8.4718
n-Heptadecane	P17	1.5167	1.9194	1.9334
UnknownC17s	U17	5.3281	6.7424	6.7916
n-Octadecane	P18	1.0453	1.4000	1.4061
UnknownC18s	U18	7.6560	10.2510	10.2967

n-Nonadecane	P19	0.8774	1.2398	1.2372
n-Eicosane	P20	0.5673	0.8375	0.8241
UnknownC20s	U20	1.5271	2.2545	2.2184
n-Heneicosane	P21	0.3734	0.5829	0.5756
UnknownC21s	U21	0.8876	1.3853	1.3678
n-Docosane	P22	0.2813	0.4597	0.4523
n-Tricosane	P23	0.1543	0.2636	0.2586
UnknownC23s	U23	0.8241	1.4078	1.3813
n-Tetracosane	P24	0.0796	0.1419	0.1389
UnknownC24s	U24	0.2412	0.4299	0.4207
n-Pentacosane	P25	0.0372	0.0691	0.0676
UnknownC25s	U25	0.1122	0.2083	0.2038
n-Hexacosane	P26	0.0209	0.0404	0.0393
UnknownC26s	U26	0.1079	0.2082	0.2024
n-Heptacosane	P27	0.0107	0.0215	0.0209
n-Octacosane	P28	0.0084	0.0175	0.0170
UnknownC28s	U28	0.0377	0.0783	0.0759
n-Nonacosane	P29	0.0055	0.0119	0.0115
UnknownC29s	U29	0.0340	0.0732	0.0708
n-Triacontane	P30	0.0034	0.0075	0.0072
UnknownC30s	U30	0.0221	0.0491	0.0474
n-Hentriacontane	P31	0.0030	0.0068	0.0066
UnknownC31s	U31	0.0136	0.0312	0.0301
n-Dotriacontane	P32	0.0030	0.0072	0.0069
n-Tritriacontane	P33	0.0021	0.0051	0.0049
n-Tetracontane	P34	0.0009	0.0024	0.0023
n-Pentatriacontane	P35	0.0004	0.0011	0.0011
<b>TOTAL</b>		<b>100.0000</b>	<b>100.0000</b>	<b>100.0000</b>

BTEX COMPONENTS	MOLE%	MASS%
BENZENE	0.0042	0.0017
TOLUENE	0.0568	0.0275
ETHYLBENZENE	0.1311	0.0732
XYLENE	0.4232	0.2365
<b>TOTAL BTEX</b>	<b>0.6153</b>	<b>0.3389</b>

Specific Gravity (H2O=1) =	0.7877
API Gravity =	48.14
Molecular Weight =	100.00
Absolute Density =	6.57
Heating Value Liq. Idl Gas=	136816
Vapor/Liquid =	13.20
Vapor Pressure =	1.12

TOTAL SAMPLE	C6+ FRACTION
	0.7877 60/60
	48.14 60/60
	190.175
	6.55 LBS/GAL
	138041 BTU/GAL
	13.31 CUFT/GAL
	0.02 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.**

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