AGAT Laboratories

HYDROCARBON LIQUID ANALYSIS

Container Identification	Sample Point Code	Meter Code	AGAT WDMS Number	Previous Number	Laboratory Number
12000289B					18CF308032B

Operator Name	Sampling Point	Unique Well Identifier
LEUCROTTA EXPLORATION	TEST SEPARATOR	04-12-081-15W6

Well Name	Well License	Well Status	Well Fluid Status	LSD
LEUCROTTA Hz DOE 4-12-81-15	34078			

Field or Area	Pool or Zone	Sampler's Company	Name of Sampler
DOE	MONTNEY A	AGAT/FORT ST. JOHN	MrB

Test Interval (mKB) From :	Test Interval (mKB) To:	Test Type	Test No.	Elevation (m) KB	Elevation (m) GRD	Pressure (kPa) Source	Pressure (kPa) Received	Temperature (°C) Source	Temperature (°C) Received
					655.30	1700	1800	26	23

Date/Time Sampled	Date Received	Date Analyzed	Date Reported	Location - Approved By - Title
Feb 02, 2018	Feb 06, 2018	Feb 13, 2018	Feb 13, 2018	Calgary - Binh Nguyen - Reporter

Other Information : BHL: 100/12-11-081-15W6/00

COMPOSITION

Component	Mole Fraction	Mass Fraction	Volume Fraction	Mole Fraction of Previous Analysis
N_2	0.0001	TRACE	TRACE	
CO_2	0.0003	0.0001	0.0001	
H_2S	0.0000	0.0000	0.0000	
C_1	0.0663	0.0088	0.0218	
C_2	0.0381	0.0094	0.0197	
C_3	0.0567	0.0206	0.0303	
iC_4	0.0163	0.0078	0.0103	
nC_4	0.0510	0.0244	0.0312	
iC_5	0.0278	0.0165	0.0197	
nC_5	0.0420	0.0250	0.0295	
C_6	0.0680	0.0478	0.0532	
C_7+	0.6334	0.8396	0.7842	
TOTAL	1.0000	1.0000	1.0000	

WDMS Data Verification Check ✓

PROPERTIES

1800
Saturation Pressure (kPa) at 23°C

Calculated Properties of the Total Sample (15/15° C)

Density (kg/m³)	Relative Density	API (°)
746.0	0.7467	58.0

Relative Molecular Mass	Gas Equivalency
121.4	145.3

Observed Properties of C_7+ Residue (15/15° C)

Density (kg/m³)	Relative Density
798.7	0.7994

API (°)	Relative Molecular Mass
45.5	160.9

Calculations for C6 and C7+ are based on boiling point grouping. Carbon number grouping would result in the following mole fractions:

C_6	C_7+
0.1164	0.5851

Results relate only to items tested. Analysis and associated calculations are based on GPA 2261, GPA 2286, GPA 2145, AGA #5, and TP-17.

View or download your data online at webfluids.agatlabs.com

AGAT Laboratories

PROPERTIES OF C6+ FRACTION

Container Identification	Sample Point Code	Meter Code	AGAT WDMS Number	Previous Number	Laboratory Number
12000289B					18CF308032B

Operator Name	Sampling Point	Unique Well Identifier
LEUCROTTA EXPLORATION	TEST SEPARATOR	04-12-081-15W6

Well Name	Well License	Well Status	Well Fluid Status	LSD
LEUCROTTA Hz DOE 4-12-81-15	34078			

Boiling Point Range (ºC)	Carbon Number	Saturated Hydrocarbons	Mole Fraction	Mass Fraction	Volume Fraction
36.1 - 68.9	C_6	Hexanes	0.0638	0.0453	0.0508
68.9 - 98.3	C_7	Heptanes	0.0867	0.0750	0.0771
98.3 - 125.6	C_8	Octanes	0.0853	0.0836	0.0841
125.6 - 150.6	C_9	Nonanes	0.0622	0.0687	0.0673
150.6 - 173.9	C_{10}	Decanes	0.0480	0.0589	0.0567
173.9 - 196.1	C_{11}	Undecanes	0.0328	0.0441	0.0422
196.1 - 215.0	C_{12}	Dodecanes	0.0239	0.0350	0.0330
215.0 - 235.0	C_{13}	Tridecanes	0.0234	0.0371	0.0347
235.0 - 252.2	C_{14}	Tetradecanes	0.0181	0.0309	0.0286
252.2 - 270.6	C_{15}	Pentadecanes	0.0157	0.0287	0.0264
270.6 - 287.8	C_{16}	Hexadecanes	0.0118	0.0230	0.0211
287.8 - 302.8	C_{17}	Heptadecanes	0.0141	0.0292	0.0266
302.8 - 317.2	C_{18}	Octadecanes	0.0117	0.0257	0.0234
317.2 - 330.0	C_{19}	Nonadecanes	0.0072	0.0168	0.0151
330.0 - 344.4	C_{20}	Eicosanes	0.0089	0.0217	0.0194
344.4 - 357.2	C_{21}	Heneicosanes	0.0065	0.0167	0.0148
357.2 - 369.4	C_{22}	Docosanes	0.0056	0.0150	0.0133
369.4 - 380.0	C_{23}	Tricosanes	0.0069	0.0193	0.0170
380.0 - 391.1	C_{24}	Tetracosanes	0.0056	0.0163	0.0144
391.1 - 401.7	C_{25}	Pentacosanes	0.0043	0.0130	0.0114
401.7 - 412.2	C_{26}	Hexacosanes	0.0039	0.0125	0.0110
412.2 - 422.2	C_{27}	Heptacosanes	0.0036	0.0117	0.0102
422.2 - 431.7	C_{28}	Octacosanes	0.0028	0.0094	0.0082
431.7 - 441.7	C_{29}	Nonacosanes	0.0026	0.0090	0.0078
441.7 - Plus	$C_{30}+$	Triacontanes	0.0077	0.0281	0.0245

Boiling Point Range (ºC)	Carbon Number	Aromatic Hydrocarbons	Mole Fraction	Mass Fraction	Volume Fraction
80.0	C_6	Benzene	0.0039	0.0026	0.0021
110.6	C_7	Toluene	0.0140	0.0111	0.0090
136.2	C_8	Ethylbenzene	0.0027	0.0025	0.0020
138.4 - 144.4	C_8	Xylenes	0.0242	0.0222	0.0180
168.9	C_9	1,2,4-Trimethylbenzene	0.0089	0.0092	0.0074

Boiling Point Range (ºC)	Carbon Number	Naphthene Hydrocarbons	Mole Fraction	Mass Fraction	Volume Fraction
48.9	C_5	Cyclopentane	0.0042	0.0025	0.0024
72.2	C_6	Methylcyclopentane	0.0226	0.0164	0.0154
81.1	C_6	Cyclohexane	0.0219	0.0159	0.0143
101.1	C_7	Methylcyclohexane	0.0359	0.0303	0.0277

Results relate only to items tested. The above hexane plus values are based upon a measured mass fraction and a calculated mole fraction and assume a total hydrocarbon recovery from the chromatographic system.

View or download your data online at webfluids.agatlabs.com