



C30+ COMPOSITIONAL ANALYSIS

HARDISTY SYNTHETIC CRUDE

B4B5577:LK6628

MaxID

Client ID

Meter Number

Laboratory Number

CRUDE QUALITY INC.

Operator Name

LSD

Well ID

CRUDE QUALITY INC. MINI ASSAY

C

MAXXAM ANALYTICS

Well Name

Initials of Sampler

Sampling Company

HSC NAPHTHA IBP - 190°C

4L CAN

Field or Area

Pool or Zone

Sample Point

Container Identity

Percent Full

Test Recovery

Interval

Elevations (m)

Sample Gathering Point

Solution Gas

Test Type

No.

Multiple Recovery

From:

To:

KB

GRD

Well Fluid Status

Well Status Mode

Production Rates

Gauge Pressures kPa

Temperature °C

Well Status Type

Well Type

Water m3/d

Oil m3/d

Gas 1000m3/d

Source

As Received

Source

As Received

23

Gas or Condensate Project

Licence No.

2014/12/22

2015/01/23

2015/01/23

FA1

Date Sampled Start

Date Sampled End

Date Received

Date Reported

Date Reissued

Analyst

COMPOSITION

COMPONENT	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
N2			
CO2			
H2S			
C1	0.0000	0.0000	0.0000
C2	Trace	Trace	Trace
C3	0.0097	0.0042	0.0058
IC4	0.0269	0.0153	0.0193
NC4	0.1025	0.0583	0.0709
IC5	0.0481	0.0340	0.0388
NC5	0.0673	0.0476	0.0536
C6	0.0976	0.0823	0.0875
C7+	0.6479	0.7583	0.7241
TOTAL	1.0000	1.0000	1.0000

PROPERTIES

RESIDUE	RELATIVE DENSITY @ 15 °C		RELATIVE MOLECULAR MASS		DATA SUMMARY		
	OBSERVED	CALCULATED	OBSERVED	CALCULATED	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
C5+		0.726		109	0.8609	0.9222	0.9040
C6+		0.737		115	0.7455	0.8406	0.8116
C7+	0.745		120	120	0.6479	0.7583	0.7241
C10+					0.1901	0.2742	0.2552
C12+					0.0094	0.0157	0.0139
TOTAL		0.711		102			

Calculated Absolute Density Total Sample: 710.4 kg/m3 @ 15°C
 Gas Equivalent Factor: 163.98 m3 Gas/m3 Liquid

** Information not supplied by client -- data derived from LSD information

Results relate only to items tested

Remarks:



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Operator Name

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CRUDE QUALITY INC. MINI ASSAY

HSC NAPHTHA IBP - 190°C

Well Name

Sample Point

MAXXAM ANALYTICS

HARDISTY SYNTHETIC CRUDE

Sampling Company

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Analyst

COMPONENT	BOILING POINT (°C)	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
Nitrogen	-196			
Carbon Dioxide	-79			
Hydrogen Sulphide	-60			
Methane	-162	0.0000	0.0000	0.0000
Ethane	-89	Trace	Trace	Trace
Propane	-42	0.0097	0.0042	0.0058
Iso-Butane	-12	0.0269	0.0153	0.0193
n-Butane	0	0.1025	0.0583	0.0709
Iso-Pentane	28	0.0481	0.0340	0.0388
n-Pentane	36	0.0673	0.0476	0.0536
Hexanes	37-69	0.0976	0.0823	0.0875
Heptanes	70-98	0.1438	0.1321	0.1315
Octanes	99-126	0.1728	0.1830	0.1778
Nonanes	127-151	0.1412	0.1690	0.1596
Decanes	152-174	0.1154	0.1587	0.1520
Undecanes	175-196	0.0653	0.0998	0.0893
Dodecanes	197-216	0.0092	0.0153	0.0135
Triadecanes	217-236	0.0002	0.0004	0.0004
Tetradecanes	237-253	Trace	Trace	Trace
Pentadecanes	254-271	Trace	Trace	Trace
Hexadecanes	272-287	0.0000	0.0000	0.0000
Heptadecanes	288-302	0.0000	0.0000	0.0000
Octadecanes	303-317	0.0000	0.0000	0.0000
NonaDecanes	318-331	0.0000	0.0000	0.0000
Eicosanes	332-343	0.0000	0.0000	0.0000
Heneicosanes	344-357	0.0000	0.0000	0.0000
Docosanes	358-369	0.0000	0.0000	0.0000
Triacosanes	370-380	0.0000	0.0000	0.0000
Tetracosanes	381-391	0.0000	0.0000	0.0000
Pentacosanes	392-402	0.0000	0.0000	0.0000
Hexacosanes	403-412	0.0000	0.0000	0.0000
Heptacosanes	413-422	0.0000	0.0000	0.0000
Octacosanes	423-432	0.0000	0.0000	0.0000
Nonacosanes	433-441	0.0000	0.0000	0.0000
triacontanes+	442-449+	0.0000	0.0000	0.0000
Totals		1.0000	1.0000	1.0000
neoHexane	50	0.0000	0.0000	0.0000
Methylcyclopentane	70	0.0315	0.0259	0.0244
Benzene	80	0.0075	0.0057	0.0046
Cyclohexane	81	0.0146	0.0120	0.0109
Methylcyclohexane	101	0.0375	0.0360	0.0331
Toluene	111	0.0187	0.0168	0.0137
Ethylbenzene	136	0.0082	0.0085	0.0069
m&p-Xylene	139	0.0189	0.0196	0.0159
o-Xylene	144	0.0110	0.0115	0.0092
1,2,4-Trimethylbenzene	169	0.0105	0.0128	0.0104

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