



C30+ COMPOSITIONAL ANALYSIS

B174099:BG2759

MaxxID		Client ID		Meter Number		Laboratory Number	
CRUDE QUALITY INC.							
Operator Name				LSD		Well ID	
CRUDE QUALITY INC. MINI ASSAY						MAXXAM ANALYTICS	
Well Name				Initials of Sampler		Sampling Company	
				OSA 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	
		From: To:		KB GRD		Solution Gas	
Test Type		No. Multiple Recovery		Well Fluid Status		Well Status Mode	
Production Rates		Gauge Pressures kPa		Temperature °C		Well Status Type	
Water m3/d Oil m3/d Gas 1000m3/d		Source As Received		22		Well Type	
				Source As Received		Gas or Condensate Project	
						Licence No.	
Date Sampled Start		Date Sampled End		Date Received		Date Reported	
				2011/08/12		2011/08/22	
						NK	
						Analyst	

COMPOSITION			
COMPONENT	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
N2			
CO2			
H2S			
C1	0.0000	0.0000	0.0000
C2	Trace	Trace	Trace
C3	0.0011	0.0005	0.0007
IC4	0.0141	0.0081	0.0099
NC4	0.0864	0.0496	0.0586
IC5	0.0568	0.0405	0.0448
NC5	0.1000	0.0713	0.0780
C6	0.1548	0.1319	0.1363
C7+	0.5868	0.6981	0.6717
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
C5+		0.700		106	0.8984	0.9418
C6+		0.711		113	0.7416	0.8300
C7+	0.719		120	120	0.5868	0.6981
C10+					0.1799	0.2625
C12+					0.0080	0.0135
TOTAL		0.692		101		0.0119

Calculated Absolute Density Total Sample: 691.4 kg/m3 @ 15°C
 Gas Equivalent Factor: 161.66 m3 Gas/m3 Liquid

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

Results relate only to items tested

Remarks:



C30+ COMPOSITIONAL ANALYSIS

CRUDE QUALITY INC.

B174099:BG2759

Operator Name

Laboratory Number

CRUDE QUALITY INC. MINI ASSAY

OSA NAPHTHA IBP - 190°C

Well Name

Sample Point

MAXXAM ANALYTICS

Sampling Company

MaxxD

Client ID

2011/08/12

2011/08/22

NK

Date Sampled Start

Date Sampled End

Date Received

Date Reported

Date Reissued

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	0.0011	0.0005	0.0007
Iso-Butane	-12	0.0141	0.0081	0.0099
n-Butane	0	0.0864	0.0496	0.0586
Iso-Pentane	28	0.0568	0.0405	0.0448
n-Pentane	36	0.1000	0.0713	0.0780
Hexanes	37-69	0.1548	0.1319	0.1363
Heptanes	70-98	0.1553	0.1467	0.1478
Octanes	99-126	0.1357	0.1478	0.1455
Nonanes	127-151	0.1159	0.1411	0.1343
Decanes	152-174	0.1060	0.1472	0.1411
Undecanes	175-196	0.0659	0.1018	0.0911
Dodecanes	197-216	0.0077	0.0130	0.0115
Triadecanes	217-236	Trace	Trace	Trace
Tetradecanes	237-253	Trace	Trace	Trace
Pentadecanes	254-271	0.0001	0.0001	0.0001
Hexadecanes	272-287	Trace	Trace	Trace
Heptadecanes	288-302	0.0001	0.0001	0.0001
Octadecanes	303-317	Trace	Trace	Trace
NonaDecanes	318-331	Trace	Trace	Trace
Eicosanes	332-343	Trace	Trace	Trace
Heneicosanes	344-357	Trace	Trace	Trace
Docosanes	358-369	Trace	Trace	Trace
Triacosanes	370-380	Trace	Trace	Trace
Tetracosanes	381-391	Trace	Trace	Trace
Pentacosanes	392-402	Trace	Trace	Trace
Hexacosanes	403-412	Trace	Trace	Trace
Heptacosanes	413-422	Trace	Trace	Trace
Octacosanes	423-432	Trace	Trace	Trace
Nonacosanes	433-441	Trace	Trace	Trace
triacontanes+	442-449+	0.0001	0.0003	0.0002
Totals		1.0000	1.0000	1.0000
neoHexane	50	0.0000	0.0000	0.0000
Methylcyclopentane	70	0.0329	0.0273	0.0256
Benzene	80	0.0026	0.0021	0.0017
Cyclohexane	81	0.0083	0.0069	0.0063
Methylcyclohexane	101	0.0208	0.0201	0.0186
Toluene	111	0.0093	0.0085	0.0069
Ethylbenzene	136	0.0055	0.0058	0.0047
m&p-Xylene	139	0.0154	0.0161	0.0131
o-Xylene	144	0.0053	0.0055	0.0044
1,2,4-Trimethylbenzene	169	0.0086	0.0105	0.0085

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