

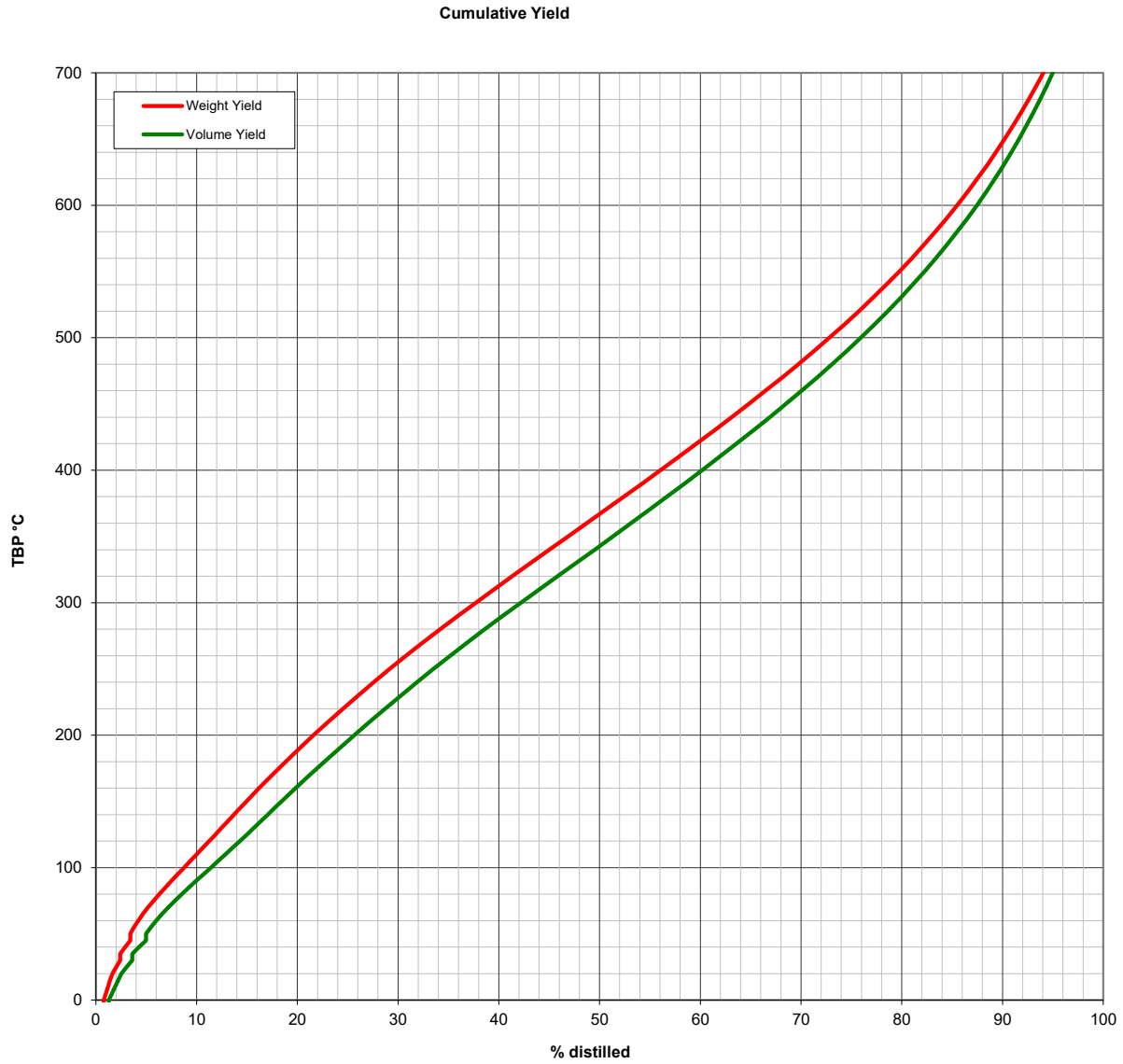
Crude Summary Report

General Information		Molecules (%wt on crude)										Whole Crude Properties			
Reference:	BACLH0626C	methane + ethane	0.00								Density @ 15°C (g/cc)	0.8604			
Name:	Bacalhau	propane	0.32								API Gravity	32.9			
Origin:	Brazil	isobutane	0.21								Total Sulfur (% wt)	0.26			
		n-butane	0.64								Pour Point (°C)	-3			
Assay Date:	6/12/2026	isopentane	0.54								Viscosity @ 20°C (cSt)	15.5			
		n-pentane	0.79								Viscosity @ 40°C (cSt)	8.8			
Comments:		cyclopentane	0.14								Nickel (ppm)	4.4			
		C6 paraffins	1.48								Vanadium (ppm)	4.2			
		C6 naphthenes	1.04								Total Nitrogen (ppm)	2063			
		benzene	0.06								Total Acid Number (mgKOH/g)	0.12			
		C7 paraffins	1.36								Mercaptan Sulfur (ppm)	6.0			
		C7 naphthenes	1.81								Hydrogen Sulfide (ppm)	0.0			
		toluene	0.22								Reid Vapor Pressure (kPa)	62.7			
													Salt (ptb)	15.0	
Cut Data		Atmospheric Cuts										Vacuum Cuts			
Start (°C)	IBP	IBP	C5	65	100	150	200	250	300	350	370	370	450	500	550
End (°C)	FBP	C4	65	100	150	200	250	300	350	370	FBP	450	500	550	FBP
Yield (% wt)		1.4	3.3	4.1	6.2	6.7	7.5	8.6	9.1	3.7	49.4	14.2	8.0	6.9	20.2
Yield (% vol)		2.2	4.3	4.9	7.0	7.2	7.9	8.7	9.1	3.6	45.1	13.6	7.4	6.3	17.7
Cumulative Yield (% wt)		1.4	4.7	8.8	14.9	21.6	29.2	37.7	46.9	50.6	100.0	64.8	72.8	79.8	100.0
Volume Average B.P. (°C)	351	41.1	83	125	175	225	275	325	360	533	409	474	524	655	
Density @ 15°C (g/cc)	0.8604	0.6407	0.7227	0.7544	0.7921	0.8234	0.8440	0.8583	0.8866	0.9393	0.8976	0.9238	0.9390	0.9779	
API Gravity	32.9	89.3	64.2	56.0	47.1	40.3	36.1	33.3	28.0	19.1	26.1	21.6	19.1	13.1	
UOPK	12.08			11.86	11.75	11.71	11.79	11.94	11.78	12.04	11.93	11.94	12.01	12.13	
Molecular Weight (g/mol)				110	138	170	209	256	287	543	346	442	556	1055	
Total Sulfur (% wt)	0.26	0.000	0.000	0.002	0.015	0.041	0.103	0.200	0.246	0.441	0.266	0.386	0.478	0.57	
Mercaptan Sulfur (ppm)	6.0		0.9	2.0	3.8	4.6	3.4								
Total Nitrogen (ppm)	2063					2	40	258	563	4077	1198	2310	3496	6999	
Basic Nitrogen (ppm)	782					2	27	136	264	1532	450	800	1286	2668	
Total Acid Number (mgKOH/g)	0.12	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.05	0.22	0.10	0.18	0.25	0.32	
Viscosity @ 20°C (cSt)	15.5					1.38									
Viscosity @ 40°C (cSt)	8.78					1.05	1.64	2.95	6.28	12.1					
Viscosity @ 50°C (cSt)	6.93						1.42	2.44	4.86	8.78	552	23.3	107	391	
Viscosity @ 60°C (cSt)											283	16.1	63.3	205	
Viscosity @ 100°C (cSt)											40.7	5.41	14.1	32.0	1174
Viscosity @ 130°C (cSt)															227
Viscosity @ 150°C (cSt)															99.1
RON (Clear)		75.8	53.8	60.4	45.8										
MON (Clear)		74.4	64.3	58.8	42.3										
Paraffins (% wt)	25.7	93.9	50.1	31.5	40.5										
Naphthenes (%wt)	34.8	6.1	48.4	57.1	40.8										
Aromatics (% wt)	39.5	0.0	1.5	11.4	18.7										
Pour Point (°C)	-3						-48	-24	0	12	19	29	45	42	25
Cloud Point (°C)							-47	-21	2						
Freeze Point (°C)							-58	-40	-18						
Smoke Point (mm)							25	21	18						
Cetane Index (D4737A)							38	44	52	61	59				
Naphthalenes (% vol)							0.1	2.0	5.8	7.3					
Aniline Point (°C)				51.5	54.9	61.8	69.3	76.8	82.3			89.1	93.7	95.2	
Hydrogen (% wt)	13.3	16.5	15.2	14.3	14.0	13.6	13.5	13.4	12.8			12.8	12.6	12.5	
Total Wax (% wt)	13.9										12.4	18.1	12.5	10.3	9.1
C7 Asphaltenes (% wt)	0.1										0.1	0.0	0.0	0.3	
Micro Carbon Residue (% wt)	2.7										5.4	0.1	1.0	12.8	
Vanadium (ppm)	4.2										8.5	0.0	0.0	20.8	
Nickel (ppm)	4.4										8.8	0.0	0.0	21.6	
Iron (ppm)	2.0										1.5	0.0	0.0	3.6	
Sodium (ppm)	0.5														
Mercury (ppb)	0.7														
Arsenic (ppb)	30														

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Reference: **BACLH0626C**
 Crude: **Bacalhau**

Yield Distribution



Cumulative Volume % Distilled at 10 Degree C (TBP) Intervals

	0	10	20	30	40	50	60	70	80	90
0				3.6	4.3	5.0	6.0	7.2	8.5	10.0
100	11.4	12.9	14.3	15.7	17.1	18.4	19.8	21.2	22.7	24.2
200	25.7	27.2	28.7	30.3	31.9	33.5	35.2	36.9	38.6	40.4
300	42.2	44.0	45.8	47.7	49.5	51.3	53.1	54.9	56.7	58.4
400	60.2	61.9	63.6	65.3	66.9	68.5	70.1	71.6	73.1	74.5
500	75.9	77.3	78.6	79.9	81.1	82.3	83.4	84.5	85.5	86.5