

Crude Summary Report

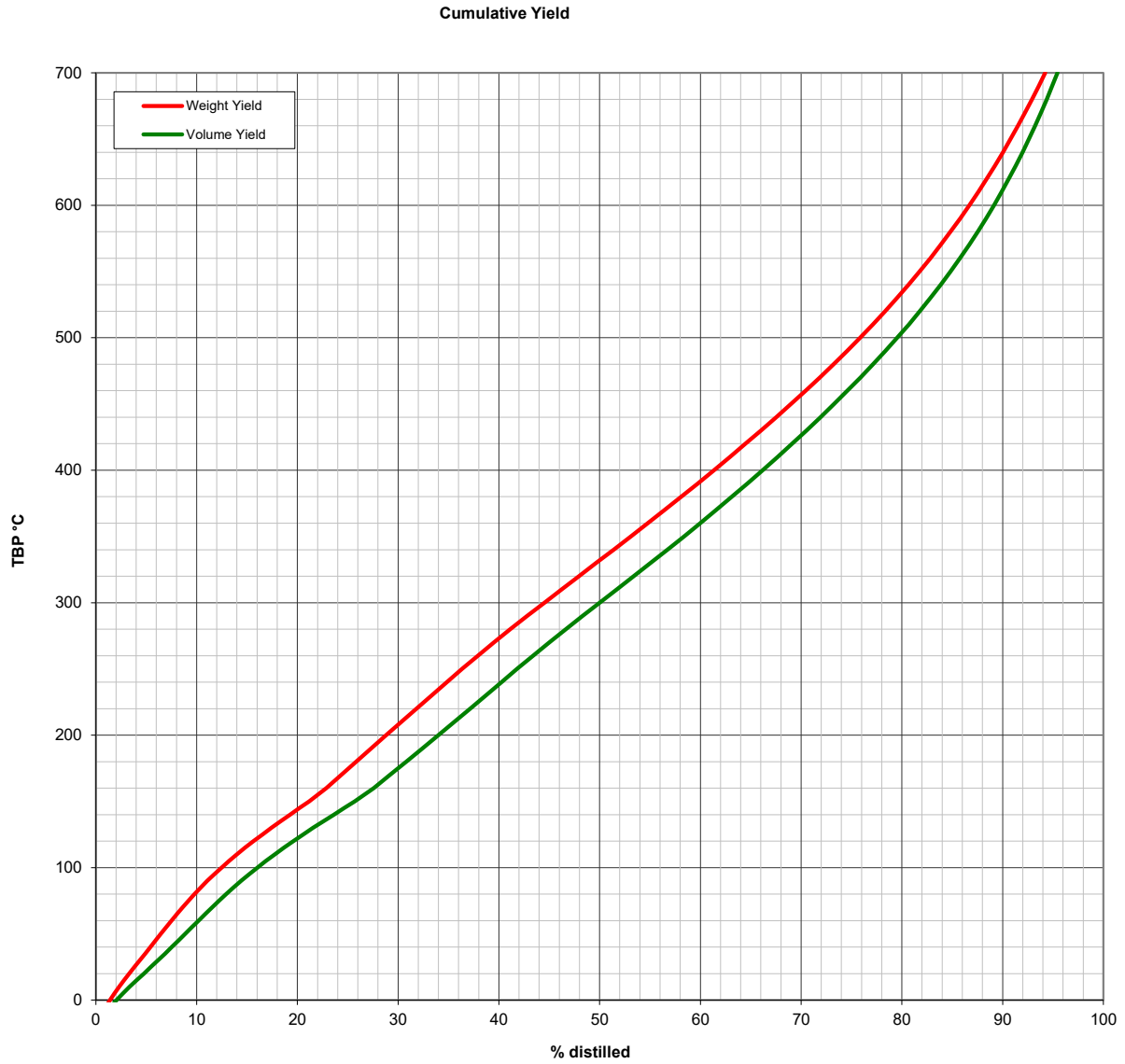
General Information		Molecules (%wt on crude)										Whole Crude Properties			
Reference:	ANS25Y	methane + ethane	0.01	Density @ 15°C (g/cc)	0.8635										
Name:	Alaska North Slope	propane	0.29	API Gravity	32.3										
Origin:	Alaska	isobutane	0.64	Total Sulfur (% wt)	1.04										
Assay Date:	11/21/2025	n-butane	1.87	Pour Point (°C)	-54										
Comments:		isopentane	1.15	Viscosity @ 20°C (cSt)	10.2										
		n-pentane	1.58	Viscosity @ 40°C (cSt)	6.3										
		cyclopentane	0.22	Nickel (ppm)	11.7										
		C6 paraffins	2.46	Vanadium (ppm)	29.6										
		C6 naphthenes	1.64	Total Nitrogen (ppm)	1725										
		benzene	0.41	Total Acid Number (mgKOH/g)	0.41										
		C7 paraffins	2.10	Mercaptan Sulfur (ppm)	12.0										
		C7 naphthenes	2.33	Hydrogen Sulfide (ppm)	0.0										
		toluene	0.91	Reid Vapor Pressure (kPa)	48.3										

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)		2.8	5.2	4.4	8.7	7.7	7.5	8.2	8.6	3.4	43.5	12.6	6.9	5.9	18.2
Yield (% vol)		4.0	6.8	5.2	9.7	8.3	7.8	8.2	8.4	3.2	38.4	11.7	6.3	5.3	15.2
Cumulative Yield (% wt)		2.8	8.0	12.5	21.2	28.8	36.4	44.5	53.1	56.5	100.0	69.0	75.9	81.8	100.0
Volume Average B.P. (°C)	317		39.6	83	126	174	225	275	325	360	534	409	474	524	658
Density @ 15°C (g/cc)	0.8635		0.6633	0.7361	0.7754	0.7947	0.8311	0.8582	0.8833	0.9034	0.9769	0.9250	0.9431	0.9605	1.0365
API Gravity	32.3		81.8	60.7	50.9	46.5	38.7	33.3	28.6	25.1	13.3	21.4	18.5	15.7	4.9
UOPK	11.81				11.55	11.70	11.60	11.60	11.60	11.56	11.59	11.57	11.70	11.74	11.45
Molecular Weight (g/mol)					109	137	169	206	248	281	523	333	429	537	980
Total Sulfur (% wt)	1.0		0.001	0.001	0.002	0.025	0.118	0.371	0.94	1.29	2.01	1.31	1.47	1.79	2.76
Mercaptan Sulfur (ppm)	12.0			7.2	8.2	10.1	2.5	0.7							
Total Nitrogen (ppm)	1725						2	19	159	475	3888	1015	1885	2837	6958
Basic Nitrogen (ppm)	528						2	18	85	152	1180	307	579	771	2138
Total Acid Number (mgKOH/g)	0.41		0.00	0.00	0.01	0.04	0.09	0.20	0.43	0.62	0.74	0.78	0.88	0.84	0.63
Viscosity @ 20°C (cSt)	10.2					1.42									
Viscosity @ 40°C (cSt)	6.28					1.08	1.69	3.11	6.84	13.6					
Viscosity @ 50°C (cSt)	5.12						1.45	2.55	5.22	9.66	1705	25.7	126	583	
Viscosity @ 60°C (cSt)											759	17.4	72.5	288	
Viscosity @ 100°C (cSt)											74.7	5.54	14.9	38.4	19607
Viscosity @ 130°C (cSt)															1868
Viscosity @ 150°C (cSt)															575
RON (Clear)			75.6	42.8	65.3	36.9									
MON (Clear)			73.8	60.4	62.8	36.7									
Paraffins (% wt)	26.6		94.7	54.8	33.4	44.9									
Naphthenes (%wt)	31.1		5.3	38.5	47.0	35.6									
Aromatics (% wt)	42.3		0.0	6.7	19.6	19.5									
Pour Point (°C)	-54						-56	-38	-12	3	11	21	36	44	73
Cloud Point (°C)							-54	-35	-10						
Freeze Point (°C)							-68	-50	-31						
Smoke Point (mm)							24	19	15						
Cetane Index (D4737A)							36	40	46	50	51				
Naphthalenes (% vol)							0.2	2.9	7.6	9.8					
Aniline Point (°C)					50.5	52.3	57.0	61.2	65.0	67.7		71.6	75.5	77.2	
Hydrogen (% wt)	13.1		16.5	14.9	13.8	14.0	13.2	13.1	12.7	12.6		12.1	12.1	11.9	
Total Wax (% wt)	3.1										5.9	6.1	7.1	7.1	5.0
C7 Asphaltenes (% wt)	1.9										4.4	0.0	0.0	10.5	
Micro Carbon Residue (% wt)	4.7										10.8	0.1	1.7	25.2	
Vanadium (ppm)	29.6										68.0	0.0	0.0	162.3	
Nickel (ppm)	11.7										26.8	0.0	0.0	63.9	
Iron (ppm)	0.6										1.5	0.0	0.0	3.5	
Sodium (ppm)	5.0														
Mercury (ppb)	1.4														
Arsenic (ppb)	93														

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Reference: **ANS25Y**
 Crude: **Alaska North Slope**

Yield Distribution



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

	0	10	20	30	40	50	60	70	80	90
0				6.2	7.5	8.9	10.2	11.5	12.9	14.4
100	16.0	17.8	19.6	21.6	23.6	25.7	27.6	29.2	30.8	32.4
200	34.0	35.6	37.1	38.7	40.3	41.8	43.4	45.0	46.6	48.3
300	50.0	51.7	53.4	55.1	56.7	58.4	60.0	61.6	63.1	64.7
400	66.2	67.7	69.1	70.5	71.9	73.3	74.6	75.9	77.1	78.4
500	79.5	80.7	81.8	82.8	83.9	84.8	85.8	86.7	87.5	88.4