

Crude Summary Report

General Information		Molecules (%wt on crude)		Whole Crude Properties	
Reference:	PAYRA26Y	methane + ethane	0.01	Density @ 15°C (g/cc)	0.8757
Name:	Payara Gold	propane	0.17	API Gravity	30.0
Origin:	Guyana	isobutane	0.14	Total Sulfur (% wt)	0.66
Assay Date:	1/23/2026	n-butane	0.60	Pour Point (°C)	0
Comments:		isopentane	0.68	Viscosity @ 20°C (cSt)	19.3
		n-pentane	0.89	Viscosity @ 40°C (cSt)	9.8
		cyclopentane	0.15	Nickel (ppm)	15.4
		C6 paraffins	1.69	Vanadium (ppm)	21.7
		C6 naphthenes	1.12	Total Nitrogen (ppm)	1760
		benzene	0.07	Total Acid Number (mgKOH/g)	0.50
		C7 paraffins	1.45	Mercaptan Sulfur (ppm)	4.0
		C7 naphthenes	2.05	Hydrogen Sulfide (ppm)	0.0
		toluene	0.30	Reid Vapor Pressure (kPa)	36.0
				Salt (ptb)	15.0

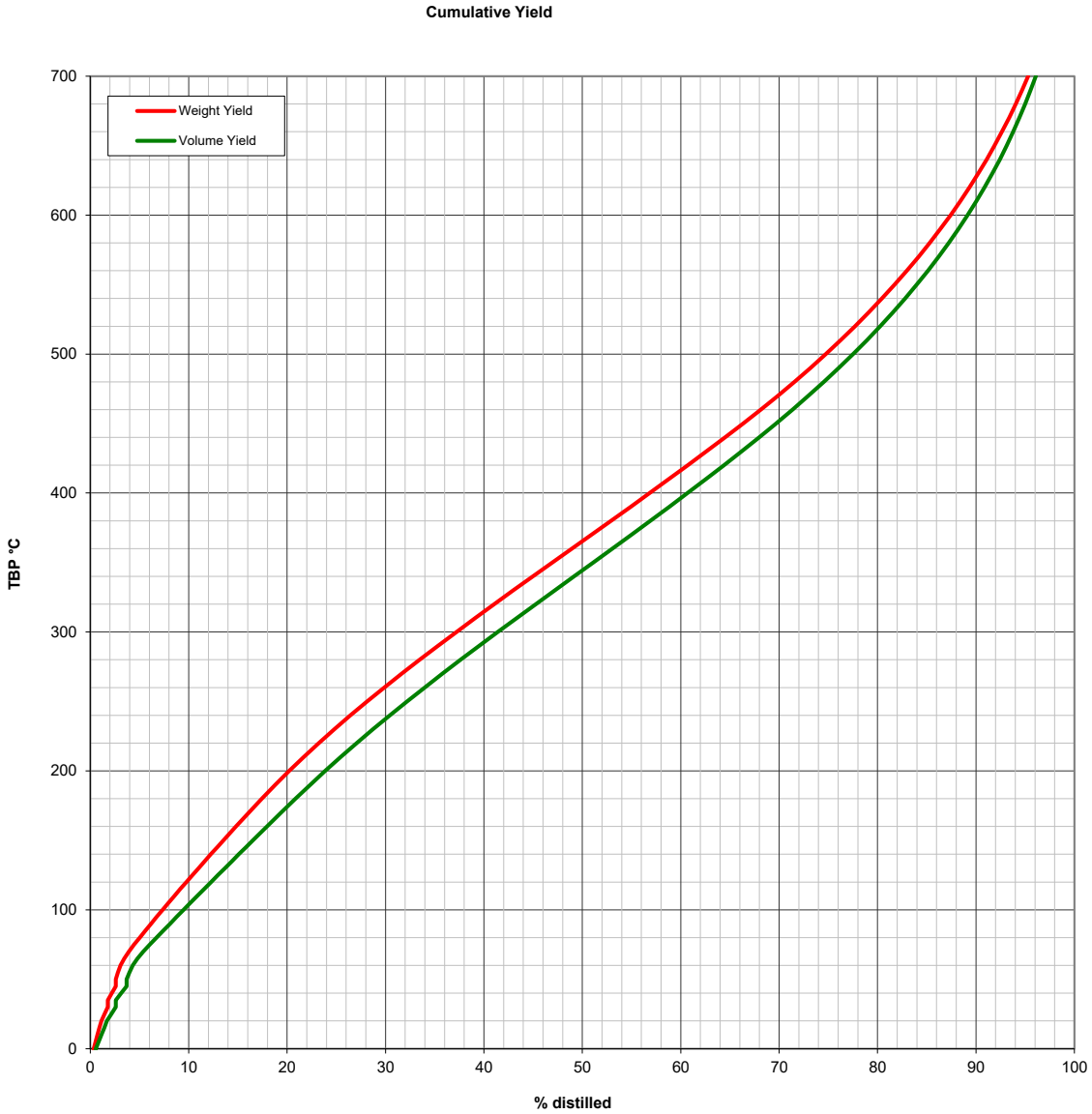
Cut Data	IBP FBP	Atmospheric Cuts										Vacuum Cuts			
		IBP C4	C5 65	65 100	100 150	150 200	200 250	250 300	300 350	350 370	370 FBP	370 450	450 500	500 550	550 FBP
Yield (% wt)		0.9	2.5	3.9	6.2	6.7	7.9	9.1	9.7	4.0	49.1	15.4	8.4	7.0	18.3
Yield (% vol)		1.4	3.4	4.7	7.0	7.4	8.3	9.2	9.7	3.9	45.0	14.7	7.8	6.5	16.0
Cumulative Yield (% wt)		0.9	3.4	7.3	13.5	20.2	28.1	37.2	47.0	50.9	100.0	66.3	74.7	81.7	100.0
Volume Average B.P. (°C)	351		40.1	83	125	175	226	275	325	360	522	409	474	524	648
Density @ 15°C (g/cc)	0.8757		0.6489	0.7264	0.7667	0.7947	0.8313	0.8600	0.8767	0.8980	0.9518	0.9152	0.9367	0.9440	0.9959
API Gravity	30.0		86.5	63.2	53.0	46.5	38.6	33.0	29.8	26.0	17.1	23.0	19.5	18.3	10.5
UOPK	11.87				11.67	11.71	11.60	11.57	11.69	11.63	11.83	11.70	11.78	11.94	11.88
Molecular Weight (g/mol)					109	138	169	206	251	283	510	338	433	551	990
Total Sulfur (% wt)	0.7		0.000	0.000	0.003	0.030	0.096	0.244	0.50	0.63	1.13	0.69	0.89	1.11	1.62
Mercaptan Sulfur (ppm)	4.0			0.6	2.0	4.4	3.4	1.7							
Total Nitrogen (ppm)	1760						12	59	271	538	3477	1172	2072	2559	6419
Basic Nitrogen (ppm)	614						12	48	121	220	1197	446	721	950	2145
Total Acid Number (mgKOH/g)	0.50		0.00	0.02	0.08	0.15	0.24	0.44	0.78	0.99	0.70	1.11	0.96	0.72	0.23
Viscosity @ 20°C (cSt)	19.3					1.40									
Viscosity @ 40°C (cSt)	9.84					1.06	1.69	3.11	6.97	14.3					
Viscosity @ 50°C (cSt)	7.46						1.45	2.56	5.33	10.2	712	31.5	172	576	
Viscosity @ 60°C (cSt)											352	21.0	96.9	289	
Viscosity @ 100°C (cSt)											46.0	6.41	18.5	40.0	2124
Viscosity @ 130°C (cSt)															354
Viscosity @ 150°C (cSt)															143
RON (Clear)			76.1	50.7	59.4	32.0									
MON (Clear)			74.5	62.6	58.8	30.8									
Paraffins (% wt)	23.2		94.3	51.5	31.6	42.0									
Naphthenes (%wt)	39.4		5.7	46.8	58.3	46.2									
Aromatics (% wt)	37.4		0.0	1.7	10.1	11.8									
Pour Point (°C)	0						-53	-31	-8	4	43	22	41	51	80
Cloud Point (°C)							-51	-29	-6						
Freeze Point (°C)							-71	-47	-23						
Smoke Point (mm)							25	21	16						
Cetane Index (D4737A)							36	40	45	53	54				
Naphthalenes (% vol)							0.1	2.2	5.5	6.9					
Aniline Point (°C)					51.9	55.0	60.4	65.8	72.1	75.5		81.0	88.3	91.8	
Hydrogen (% wt)	13.1		16.5	15.2	14.3	14.3	13.5	13.2	13.0	12.8		12.5	12.3	12.5	
Total Wax (% wt)	8.3										6.0	9.8	8.0	7.9	1.2
C7 Asphaltene (% wt)	0.9										1.8	0.0	0.0	4.8	
Micro Carbon Residue (% wt)	3.0										6.2	0.1	1.3	16.0	
Vanadium (ppm)	21.7										44.1	0.0	0.0	118.6	
Nickel (ppm)	15.4										31.3	0.0	0.0	84.1	
Iron (ppm)	1.1										2.4	0.0	0.0	6.5	
Sodium (ppm)	0.6														
Mercury (ppb)	0.1														
Arsenic (ppb)	5														

This assay information is provided to you courtesy of ExxonMobil Technology & Engineering Company (EMTEC) and is based on a range of data and information.

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Reference: **PAYRA26Y**
 Crude: **Payara Gold**

Yield Distribution



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

	0	10	20	30	40	50	60	70	80	90
0				2.6	3.1	3.7	4.3	5.4	6.7	8.1
100	9.5	10.9	12.3	13.7	15.1	16.5	18.0	19.4	20.9	22.4
200	23.9	25.4	27.1	28.7	30.4	32.2	34.0	35.8	37.6	39.5
300	41.4	43.3	45.3	47.2	49.2	51.1	53.0	55.0	56.9	58.8
400	60.7	62.6	64.4	66.2	68.0	69.7	71.3	73.0	74.5	76.0
500	77.5	78.9	80.3	81.6	82.8	84.0	85.1	86.2	87.2	88.2