

Crude Summary Report

General Information		Molecules (%wt on crude)				Whole Crude Properties			
Reference:	GLDAH26C	methane + ethane	0.00	Density @ 15°C (g/cc)	0.8419				
Name:	Golden Arrowhead	propane	0.25	API Gravity	36.5				
Origin:	Guyana	isobutane	0.20	Total Sulfur (% wt)	0.25				
Assay Date:	5/22/2026	n-butane	0.77	Pour Point (°C)	-3				
Comments:		isopentane	0.97	Viscosity @ 20°C (cSt)	6.8				
		n-pentane	1.21	Viscosity @ 40°C (cSt)	4.3				
		cyclopentane	0.18	Nickel (ppm)	6.8				
		C6 paraffins	2.09	Vanadium (ppm)	2.6				
		C6 naphthenes	1.30	Total Nitrogen (ppm)	1329				
		benzene	0.07	Total Acid Number (mgKOH/g)	0.15				
		C7 paraffins	1.86	Mercaptan Sulfur (ppm)	2.0				
		C7 naphthenes	2.51	Hydrogen Sulfide (ppm)	0.0				
		toluene	0.35	Reid Vapor Pressure (kPa)	40.8				
				Salt (ptb)	15.0				

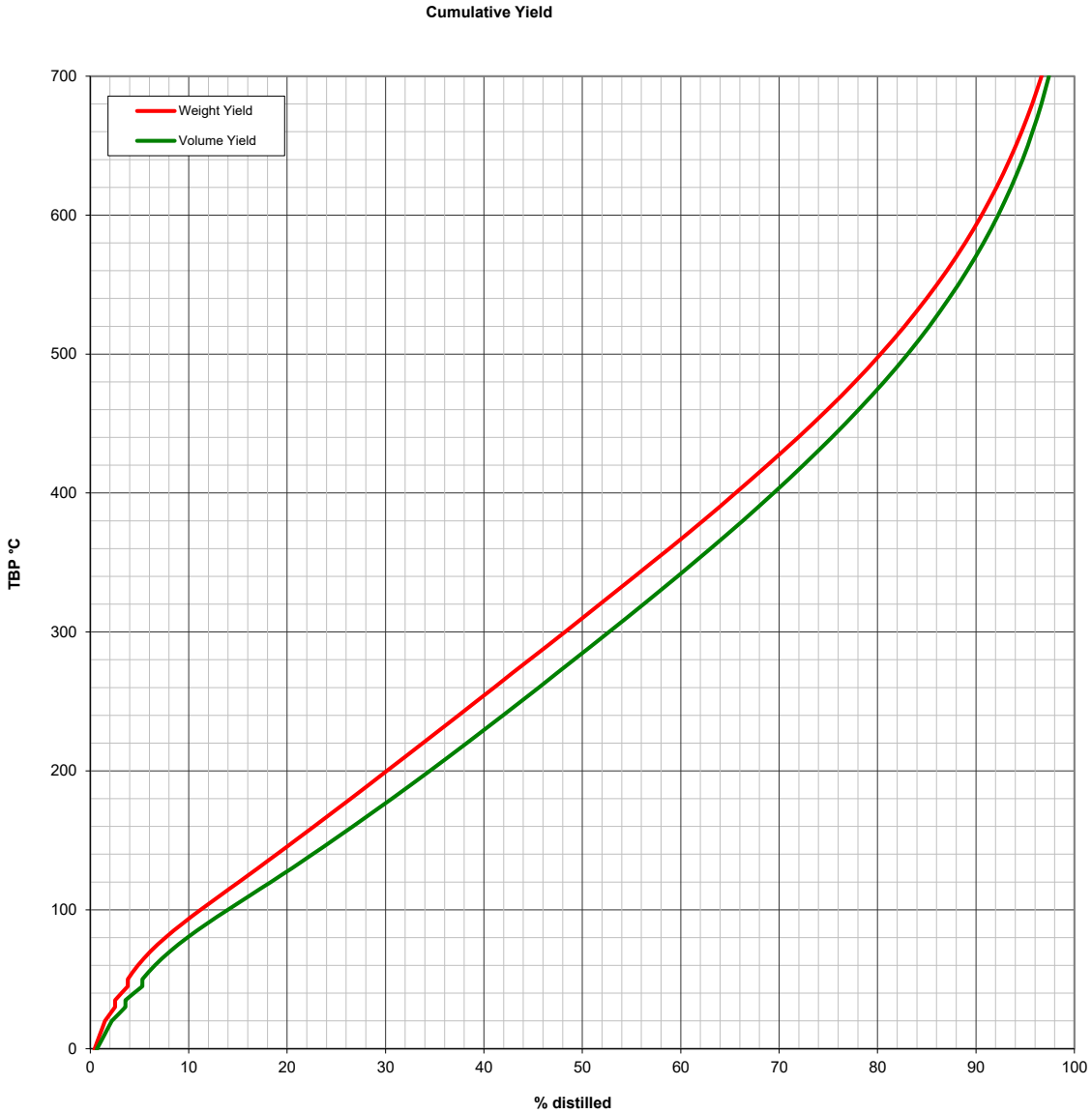
Cut Data	IBP FBP	Atmospheric Cuts										Vacuum Cuts			
		IBP C4	C5 65	65 100	100 150	150 200	200 250	250 300	300 350	350 370	370 FBP	370 450	450 500	500 550	550 FBP
Yield (% wt)		1.2	4.2	5.8	9.7	9.3	9.1	9.0	8.8	3.5	39.4	12.9	6.9	5.7	14.0
Yield (% vol)		1.8	5.5	6.7	10.7	9.8	9.3	9.0	8.6	3.3	35.3	12.1	6.3	5.2	11.8
Cumulative Yield (% wt)		1.2	5.4	11.2	20.9	30.1	39.2	48.2	57.1	60.6	100.0	73.4	80.3	86.0	100.0
Volume Average B.P. (°C)	306	41.2	83	125	175	225	275	325	360	515		409	474	524	643
Density @ 15°C (g/cc)	0.8419	0.6465	0.7220	0.7570	0.7907	0.8208	0.8448	0.8566	0.8805	0.9356	0.8941	0.9146	0.9289	0.9923	
API Gravity	36.5	87.4	64.4	55.4	47.4	40.8	35.9	33.6	29.1	19.7	26.7	23.1	20.7	11.0	
UOPK	12.04			11.82	11.77	11.74	11.78	11.96	11.86	12.01	11.97	12.06	12.14	11.90	
Molecular Weight (g/mol)				110	138	170	209	257	290	514		347	448	564	985
Total Sulfur (% wt)	0.25		0.003	0.006	0.007	0.011	0.030	0.104	0.228	0.302	0.52	0.339	0.389	0.482	0.78
Mercaptan Sulfur (ppm)	2.0			0.9	1.1	1.0	0.8	0.6							
Total Nitrogen (ppm)	1329						9	62	264	550	3244	1180	2060	2759	5930
Basic Nitrogen (ppm)	419						8	48	114	198	1007	371	573	739	1917
Total Acid Number (mgKOH/g)	0.15		0.00	0.02	0.05	0.09	0.12	0.15	0.19	0.22	0.21	0.24	0.24	0.23	0.16
Viscosity @ 20°C (cSt)	6.83					1.21									
Viscosity @ 40°C (cSt)	4.33					0.94	1.49	2.76	5.92	11.2					
Viscosity @ 50°C (cSt)	3.58						1.29	2.29	4.61	8.19	298	19.9	75.8	263	
Viscosity @ 60°C (cSt)											162	14.0	47.0	145	
Viscosity @ 100°C (cSt)											27.7	4.94	11.7	25.7	1165
Viscosity @ 130°C (cSt)															219
Viscosity @ 150°C (cSt)															94.3
RON (Clear)			76.2	52.1	58.4	39.9									
MON (Clear)			74.3	63.1	57.0	37.0									
Paraffins (% wt)	30.3		95.0	51.4	31.5	42.0									
Naphthenes (%wt)	38.1		5.0	47.2	57.5	42.5									
Aromatics (% wt)	31.6		0.0	1.3	11.0	15.6									
Pour Point (°C)	-3						-48	-24	-1	12	36	29	45	53	52
Cloud Point (°C)							-45	-19	2						
Freeze Point (°C)							-60	-40	-17						
Smoke Point (mm)							25	22	18						
Cetane Index (D4737A)							38	45	51	62	62				
Naphthalenes (% vol)							0.1	3.0	6.8	2.3					
Aniline Point (°C)					50.6	55.3	63.3	72.4	79.9	83.8		91.2	99.5	102.6	
Hydrogen (% wt)	13.6		16.5	15.2	14.3	14.1	13.6	13.5	13.4	13.1		12.9	12.8	12.7	
Total Wax (% wt)	12.5										13.3	17.4	16.3	16.1	6.7
C7 Asphaltene (% wt)	0.3										0.7	0.0	0.0	2.1	
Micro Carbon Residue (% wt)	2.2										5.6	0.7	2.8	14.4	
Vanadium (ppm)	2.6										6.6	0.0	0.0	18.6	
Nickel (ppm)	6.8										17.1	0.0	0.0	48.4	
Iron (ppm)	2.0										5.1	0.0	0.0	14.3	
Sodium (ppm)	0.6														
Mercury (ppb)	0.3														
Arsenic (ppb)	6														

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: **GLDAH26C**
 Crude: **Golden Arrowhead**

Yield Distribution



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

	0	10	20	30	40	50	60	70	80	90
0				3.6	4.4	5.3	6.5	8.1	9.9	11.8
100	14.0	16.2	18.3	20.5	22.6	24.6	26.7	28.7	30.6	32.6
200	34.5	36.4	38.2	40.1	41.9	43.8	45.6	47.4	49.2	50.9
300	52.7	54.5	56.2	58.0	59.7	61.4	63.0	64.7	66.3	67.9
400	69.4	71.0	72.5	73.9	75.4	76.7	78.1	79.4	80.7	81.9
500	83.0	84.2	85.2	86.3	87.3	88.2	89.1	90.0	90.8	91.5