

Crude Summary Report

General Information		Molecules (%wt on crude)										Whole Crude Properties			
Reference:	CORAL24C	methane + ethane	0.00	Density @ 15°C (g/cc)	0.7675	Name:	Coral Condensate	propane	0.69	API Gravity	52.8	isobutane	0.38	Total Sulfur (% wt)	0.02
Origin:	Mozambique	n-butane	1.40	Pour Point (°C)	-36	Assay Date:	1/17/2025	isopentane	4.70	Viscosity @ 20°C (cSt)	0.5	n-pentane	9.36	Viscosity @ 40°C (cSt)	0.4
Comments:		cyclopentane	0.81	Nickel (ppm)	0.0			C6 paraffins	13.90	Vanadium (ppm)	0.0	benzene	5.51	Total Nitrogen (ppm)	17
		C6 naphthenes	5.51	Total Acid Number (mgKOH/g)	0.04			C7 paraffins	7.08	Mercaptan Sulfur (ppm)	0.2	C7 naphthenes	7.14	Hydrogen Sulfide (ppm)	0.0
		toluene	3.02	Reid Vapor Pressure (kPa)	72.4										

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)		2.5	28.7	23.0	21.4	8.3	5.6	4.1	3.8	1.2	1.5	1.5	0.0	0.0	0.0
Yield (% vol)		3.4	32.0	22.9	20.7	7.7	4.8	3.3	3.0	1.0	1.2	1.2	0.0	0.0	0.0
Cumulative Yield (% wt)		2.5	31.2	54.2	75.6	83.9	89.5	93.5	97.3	98.5	100.0	100.0	100.0	100.0	100.0
Volume Average B.P. (°C)	108		44.1	82	122	171	225	274	325	360	391	391	461	513	693
Density @ 15°C (g/cc)	0.7675		0.6772	0.7561	0.7819	0.8130	0.8762	0.9266	0.9517	0.9549	0.9492	0.9492	0.9479	0.9588	1.0166
API Gravity	52.8		77.4	55.6	49.4	42.5	29.9	21.1	17.1	16.6	17.5	17.5	17.7	16.0	7.6
UOPK	11.49				11.41	11.41	11.00	10.73	10.76	10.93	11.18	11.18	11.57	11.70	11.82
Molecular Weight (g/mol)					107	133	161	190	228	263	300	299	400	507	967
Total Sulfur (% wt)	0.02		0.000	0.000	0.000	0.001	0.007	0.032	0.150	0.294	0.426	0.425	0.66	0.78	1.20
Mercaptan Sulfur (ppm)	0.2			0.37	0.6	0.5	0.33	0.19							
Total Nitrogen (ppm)	17						2	17	160	345	402	401	511	722	2620
Basic Nitrogen (ppm)	4						2	9	35	62	88	88	170	263	820
Total Acid Number (mgKOH/g)	0.04		0.01	0.03	0.06	0.09	0.10	0.10	0.10	0.10	0.09	0.09	0.08	0.06	0.02
Viscosity @ 20°C (cSt)	0.48					1.28									
Viscosity @ 40°C (cSt)	0.40					0.97	1.56	2.97	7.87	19.4					
Viscosity @ 50°C (cSt)	0.37						1.34	2.42	5.83	13.0	32.2	31.7	583	18829	
Viscosity @ 60°C (cSt)											20.5	20.3	257	5229	
Viscosity @ 100°C (cSt)											5.70	5.65	27.4	163	
Viscosity @ 130°C (cSt)															
Viscosity @ 150°C (cSt)															
RON (Clear)			74.3	43.3	69.7	46.1									
MON (Clear)			72.3	60.2	64.3	43.4									
Paraffins (% wt)	51.8		96.5	57.8	29.3	46.7									
Naphthenes (%wt)	27.5		3.5	35.7	43.8	22.9									
Aromatics (% wt)	20.6		0.0	6.5	26.9	30.5									
Pour Point (°C)	-36							-123	-107	-84	-71	0	-58	-34	-19
Cloud Point (°C)								-121	-105	-82					
Freeze Point (°C)								-129	-117	-101					
Smoke Point (mm)								19	16	14					
Cetane Index (D4737A)								27	24	23	32				
Naphthalenes (% vol)								0.4	5.7	7.8	8.8				
Aniline Point (°C)					44.9	43.9	48.0	53.4	61.1	66.2		70.3	78.4	83.1	
Hydrogen (% wt)	14.4		16.5	15.0	13.4	13.6	11.6	12.4	12.3	11.1		11.5	11.3	11.3	
Total Wax (% wt)	0.4										4.3	4.3	4.0	2.6	
C7 Asphaltenes (% wt)	0.0										0.0		0.0	0.0	
Micro Carbon Residue (% wt)	0.0										0.0		0.4	1.6	
Vanadium (ppm)	0.0										0.0		0.0	0.0	
Nickel (ppm)	0.0										0.0		0.0	0.0	
Iron (ppm)	0.1										1.9		0.0	0.0	
Sodium (ppm)	0.1												0.0	0.0	
Mercury (ppb)	1.0														
Arsenic (ppb)	10														

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