

Reference: CORAL23B  
Crude: Coral Condensate



## Crude Summary Report

General Information		Molecules (%wt on crude)			Whole Crude Properties	
Reference:	CORAL23B	methane + ethane	0.00	Density @ 15°C (g/cc)	0.7681	
Name:	Coral Condensate	propane	0.36	<b>API Gravity</b>	<b>52.7</b>	
Origin:	Mozambique	isobutane	0.37	Total Sulfur (% wt)	0.01	
Assay Date:	1/17/2024	n-butane	1.47	Pour Point (°C)	-45	
Comments:		isopentane	1.56	Viscosity @ 20°C (cSt)	0.8	
		n-pentane	2.74	Viscosity @ 40°C (cSt)	0.7	
		cyclopentane	0.69	Nickel (ppm)	0.0	
		C6 paraffins	9.97	Vanadium (ppm)	0.0	
		C6 naphthenes	6.24	Total Nitrogen (ppm)	8	
		benzene	1.71	Total Acid Number (mgKOH/g)	0.03	
		C7 paraffins	6.98	Mercaptan Sulfur (ppm)	0.6	
		C7 naphthenes	9.78	Hydrogen Sulfide (ppm)	0.0	
		toluene	5.15	Reid Vapor Pressure (kPa)	43.8	

Cut Data	IBP	Atmospheric Cuts									Vacuum Cuts			
		C5	65	100	150	200	250	300	350	370	370	450	500	550
Start (°C)														
End (°C)	FBP	65	100	150	200	250	300	350	370	FBP	450	500	550	FBP
Yield (% wt)		12.1	29.5	25.5	15.1	8.8	4.2	1.9	0.2	0.9	0.4	0.1	0.1	0.3
Yield (% vol)		13.7	30.3	25.1	14.3	7.9	3.7	1.6	0.2	0.7	0.3	0.1	0.1	0.2
Cumulative Yield (% wt)		1.8	13.9	43.4	68.9	84.0	92.8	97.0	98.9	99.1	99.1	99.5	99.6	99.7
Volume Average B.P. (°C)	123	46.8	83	121	173	222	272	320	359	493	404	474	524	643
Density @ 15°C (g/cc)	0.7681	0.6718	0.7470	0.7854	0.8196	0.8555	0.8872	0.9168	0.9213	0.9668	0.9432	0.9596	0.9713	1.0096
API Gravity	52.7	79.1	57.9	48.6	41.1	33.8	27.9	22.8	22.0	14.8	18.4	15.9	14.1	8.6
UOPK	11.63			11.35	11.33	11.25	11.19	11.14	11.33	11.51	11.32	11.50	11.61	11.70
Molecular Weight (g/mol)				106	133	163	197	234	274	435	318	417	527	934
Total Sulfur (% wt)	0.01	0.002	0.003	0.003	0.003	0.010	0.029	0.082	0.194	0.403	0.225	0.280	0.404	0.76
Mercaptan Sulfur (ppm)	0.6	2.0	3.1	2.9	2.4	2.1	1.6							
Total Nitrogen (ppm)	8					5	24	74	147	505	368	728	725	496
Basic Nitrogen (ppm)	8					2	9	31	77	711	286	740	968	1256
Total Acid Number (mgKOH/g)	0.03	0.00	0.01	0.03	0.05	0.07	0.07	0.08	0.10	0.09	0.11	0.13	0.10	0.01
Viscosity @ 20°C (cSt)	0.85				1.29									
Viscosity @ 40°C (cSt)	0.68				0.95	1.42	2.56	5.46	16.9					
Viscosity @ 50°C (cSt)	0.61					1.21	2.10	4.23	11.4	250				
Viscosity @ 60°C (cSt)										141	21.5	63.5	370	
Viscosity @ 100°C (cSt)										26.4	14.9	42.0	210	
Viscosity @ 130°C (cSt)											5.08	12.2	39.1	12190
Viscosity @ 150°C (cSt)														1533
RON (Clear)		76.1	42.0	75.4	48.4									
MON (Clear)		75.8	60.1	67.6	46.4									
Paraffins (% wt)	41.4	92.7	54.4	21.7	44.6									
Naphthenes (%wt)	33.8	7.3	38.1	43.9	26.5									
Aromatics (% wt)	24.7	0.0	7.4	34.4	28.9									
Pour Point (°C)	-45													
Cloud Point (°C)														
Freeze Point (°C)														
Smoke Point (mm)														
Cetane Index (D4737A)														
Naphthalenes (% vol)														
Aniline Point (°C)														
Hydrogen (% wt)	13.8	16.4	14.9	12.9	13.6	12.5	12.5	12.0	11.2		72.7	77.6	83.9	
Total Wax (% wt)	0.7									4.3	11.8	11.7	11.8	0.7
C7 Asphaltenes (% wt)	0.0									0.5		0.0	0.0	1.9
Micro Carbon Residue (% wt)	0.0									1.9		0.3	1.5	6.1
Vanadium (ppm)	0.0									0.2		0.0	0.0	0.7
Nickel (ppm)	0.0									0.6		0.0	0.0	2.1
Iron (ppm)	0.1									6.3		0.0	0.0	22.7
Sodium (ppm)	0.1													
Mercury (ppb)	1.0													
Arsenic (ppb)	10													

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