TotalEnergies	**Crude** **SYNBIT SHB**	TBP DISTILLATION
	Country Canada	

Assay 27-May-10

Density at 15 °C, kg/m3	939.5
° API	19.02
Bbl/mt	6.70
Viscosity, cSt at 10 °C	470.7
Viscosity cst at 50°C	46.1
Pour Point, °C	-36.0
Wax content, wt%	
Wax Appearance Temp °C	
R V P at 37.8 °C, kPa	12.5
Water %vol	
BSW %vol	
NaCl mg/kg	
Sulphur, wt %	2.97
Mercaptan sulphur, mg/kg	20
Hydrogen sulphide, mg/kg	0
Acidity mg KOH/g	1.33
Nickel, mg/kg	44
Vanadium, mg/kg	125
Nitrogen, wt%	0.2700

	wt %	vol %
Ethane	0.00	0.00
Propane	0.00	0.00
Iso-Butane	0.01	0.02
n-Butane	0.10	0.16

°C	wt %	vol %	°C	wt %	vol %
015	0.11	1.82			
080	1.87	4.30			
150	5.52	8.90			
175	7.39	11.14			
230	13.84	18.44			
325	31.23	37.07			
350	36.94	42.97			
375	42.52	48.64			
550	69.46	73.36			
565	71.85	75.45			

PROPERTIES OF TBP CUTS

LIGHT NAPHTHA	Cut	Yield	Yield	Dens 15°C	S	RSH	RON	RON	MON	MON	Napht	Aro	RVP			Benz
	°C	wt %	vol %	kg/m3	wt %	%wt	clear	0,15g/l	clear	0,15g/l	%vol	%Vol	kPa			%vol
	15-65															
	15-80	1.76	2.47	669	0.0130		71.1	78.5	70.1	77.6		1.4				1.0
HEAVY NAPHTHA	Cuts	Yield	Yield	Dens 15°C	S						Napht	Aro				
	°C	wt %	vol %	kg/m3	wt %						%vol	%vol				
	80-150	3.65	4.61	744	0.0250						34.5	7.9				
	80-175	5.52	6.84	758	0.0352						26.8	10.2				
	100-150	2.61	3.29	744	0.0250						26.8	9.8				
KEROSENE	Cuts	Yield	Yield	Dens 15°C	S	RSH	Smoke	Acid.	Cetane	Freeze Pt	Naphtal.	Aro.	Saybolt	Visc cst		Flash
	°C	wt %	vol %	kg/m3	wt %	mg/kg	Point	mg/g	Calc	°C	%vol	%vol	Color	50 °C		Point
	150-230	8.32	9.54	820	0.084		19		32.5	-65.0		18.5				
	175-230	6.45	7.31	829	0.092				34.4							
	150-250	11.98	13.46	836	0.177				30.9							
GASOIL	Cuts	Yield	Yield	Dens 15°C	S		Anilin Pt	Cetane	Cetane	Cloud Pt	CFPP	Pour Pt	Visc cst	Visc cst	KUOP	Flash
	°C	wt %	vol %	kg/m3	wt %		C		Calc.	°C	°C	°C	50 °C	100 °C		Point
	175-400	38.98	41.04	892	0.733				38.9	-21		-55				
	230-400	32.53	33.73	906	0.860				39.5	-31		-55				
	230-375	28.68	30.20	892	0.647				41.3	-32		-55				
VACUUM DISTILLATE	Cuts	Yield	Yield	Dens 15°C	S	Conrad	Anilin Pt	Ni	V	Total N	Bas N	Pour Pt	Visco cSt	Visc cst	KUOP	Asp. C7
	°C	wt %	vol %	kg/m3	wt %	wt %	C	mg/kg	mg/kg	wt %	wt%	C	100 °C	150°C		%wt
	375-550	26.94	24.71	1024	2.45	0.23				0.1700	0.0428				10.61	
	375-565	29.33	26.81	1028	2.49											
	375-580															
	400-565	25.48	23.28	1028	2.50											
RESIDUE	Cuts	Yield	Yield	Dens 15°C	S	Conrad	Asp C5	Ni	V	Total N	Pene	Pour Pt	Visco cSt	Visco cSt		Asp. C7
	°C	wt %	vol %	kg/m3	wt %	wt %	%wt	mg/kg	mg/kg	wt %		°C	100 °C	150 °C		wt %
	> 375	57.48	51.36	1052	4.35							36	338	33		
	> 550	30.54	26.64	1077	6.02	26.0		158.8	429.7	0.7300		105	133889	1859		21.2
	> 565	28.15	24.55	1077	6.28							111	2.8E+05	2964		
	> 580															

* estimated value

Total DTS/AM Jun-10

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