



Crude **HANDIL MIX**

Country Indonesia

TBP
DISTILLATION

Density at 15°C, kg/m3	827.2	Assay Date	01-Mar-16	°C	wt%	vol%	°C	wt%	vol%
°API	39.5			080	9.6	12.6	460	88.9	90.7
Bbl/mt	7.618			090	11.7	14.9	480	91.0	92.5
Acidity, mg KOH/g	0.12			100	14.6	18.1	500	92.8	94.1
Sulphur, wt%	0.059			120	23.1	27.2	520	94.4	95.4
Hydrogen Sulphide, mg/kg	2			140	31.0	35.5	540	95.7	96.5
Mercaptan Sulphur, mg/kg	5			160	36.6	41.3	560	96.7	97.4
Viscosity, cSt at 10 °C	4.0			180	41.9	46.6	580	97.6	98.1
	50 °C	1.8		200	45.0	49.7			
Pour Point, °C	6			220	49.3	53.9			
Total Nitrogen, wt%	0.020			240	55.2	59.5			
Wax, wt%	10.0			260	61.2	65.3			
Wax Appearance Temperature, °C	-			280	66.2	69.9			
RVP at 37.8 °C, kPa	46			300	70.4	73.9			
Water, vol%	-			320	73.6	76.9			
NaCl, mg/kg	-			340	74.9	78.1			
Nickel, mg/kg	0.1			360	76.3	79.3			
Vanadium, mg/kg	0.0			380	78.6	81.5			
Iron, mg/kg	-			400	81.4	84.0			
Mercury, µg/kg	-			420	84.1	86.4			
				440	86.6	88.6			

PROPERTIES OF TBP CUTS

LIGHT NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH	RON	MON			Napht.	Aro.	RVP			
	°C	wt%	vol %	kg/m3	wt%	mg/kg	clear	clear			vol%	vol%	kPa			
	15-65	4.8	6.1	643	0.0040	3	83.5	78.7			3.0	0.1	112.51			
	15-80	6.6	8.2	664	0.0046	4	85.4	79.0			8.7	0.7	92.26			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	24.1	25.7	770	0.0093	6					38.1	18.1				
80-175	31.2	33.0	779	0.0100	7					38.9	18.6					
100-150	19.1	20.2	776	0.0098	6					39.3	20.4					
KEROSENE	Cuts	Yield	Yield	Den 15°C	S	RSH	Smoke	Acidity	Cetane	Freez. Pt		Aro.	Visc cSt			Flash
	°C	wt%	vol %	kg/m3	wt%	mg/kg	Pt mm	mgKOH/g	Index	°C		vol%	50°C			Point
	150-230	18.4	18.3	827	0.017	7	13	0.12	28.5	-63		19.2	1.1			54.2
	175-230	11.3	11.0	840	0.020	7	13	0.12	30.1	-53		18.4	1.3			70.6
150-250	24.6	24.2	835	0.022	7	13	0.12	31.6	-54		19.5	1.3			58.4	
GASOIL	Cuts	Yield	Yield	Den 15°C	S		Anilin		Cetane	Cloud Pt	CFPP	Pour Pt	Visc cSt	Visc cSt	UOPK	Flash
	°C	wt%	vol %	kg/m3	wt%		Point °C		Index	C	C	C	50°C	100°C		Point
	175-400	40.5	38.4	867	0.067		57		41.1	-7	-9	-12	2.7	1.2	11.4	88.5
	230-400	29.3	27.4	878	0.085		61		43.7	-1	-1	-2	3.8	1.6	11.5	100.6
230-375	25.8	24.3	875	0.082		60		42.5	-7	-7	-8	3.4	1.5	11.4	99.2	
VACUUM DISTILLATE	Cuts	Yield	Yield	Den 15°C	S	Conrad.	Anilin	Ni	Va	Total N	Bas N	Pour Pt	Visc cSt	Visc cSt	UOPK	Asp C7
	°C	wt%	vol %	kg/m3	wt%	wt%	Point °C	mg/kg	mg/kg	wt%	mg/kg	C	100°C	150°C		wt %
	375-550	18.2	16.1	932	0.12	0.1	78	0	0	0.036	126	44	5.8	2.4	11.7	0.0
	375-565	19.0	16.7	934	0.12	0.2	79	0	0	0.040	135	44	6.2	2.5	11.7	0.1
	375-580	19.6	17.2	936	0.12	0.4	79	0	0	0.043	143	45	6.5	2.6	11.7	0.1
400-580	16.2	14.1	943	0.13	0.4	80	0	0	0.049	166	47	7.7	2.9	11.7	0.1	
RESIDUE	Cuts	Yield	Yield	Den 15°C	S	Conrad.	Acidity	Ni	Va	Total N		Pour Pt	Visc cSt	Visc cSt	Pene	Asp C7
	°C	wt%	vol %	kg/m3	wt%	wt%	mgKOH/g	mg/kg	mg/kg	wt%		C	100°C	150°C	mm/10	wt%
	> 375	22.0	19.1	946	0.14	2.2	0.1	0	0	0.087		48	9	3	-	0.2
	> 550	3.8	3.1	1019	0.28	11.9	0.1	2	1	0.333		58	490	47	124	1.1
	> 565	3.1	2.4	1026	0.30	14.1	0.1	3	1	0.384		62	1020	74	77	1.2
> 580	2.4	1.9	1034	0.32	16.7	0.1	3	1	0.443		65	2350	125	52	1.4	

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