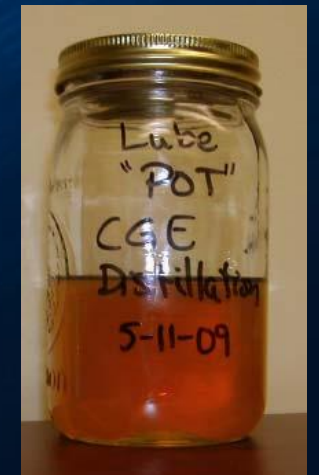




REACTIVE ENERGY, INC.

MIRCOWAVE RECYCLING TECHNOLOGY FOR CONVERTING
PLASTIC WASTE TO A SYNTHETIC DIESEL FUEL AND A
SYNCRUDE PETROLEUM BASE PRODUCT



Produced Product Samples

THESE ARE THE PRODUCED PRODUCTS MADE FROM THE PLASTIC WASTE TO THE PROCESSED RAW MATERIAL AND THE VARIATIONS OF DISTILLATION & HYDRO-TREATMENT TO DIFFERENT STAGES OF MARKETABLE. PRODUCTS.

	ASTM	Whole Fraction	650 (-)	650 - 850	850 - 960	960 (+)	~Naphtha 400 (-)	~Diesel 400 - 650
Yield - LV%		100%	46.8%	27.9%	16.5%	8.5%	21.0%	25.8%
Yield - wt%		100%	45.5%	28.2%	16.9%	9.3%	20.0%	25.5%
API Gravity (60F)	D5002	41.2	46.2	38.9	37.0	26.4		
Sulfur - wppm	D2622-05	28	24	22	24	43		
Nitrogen - wppm	D5762	170	280	120	91	260		
Bromine No.	D1159		48.9	11.6	5.7			
Refractive Index (60C)	D1747		1.4284	1.4400	1.4483			
KV (cst) @ 60C	D445		1.3212	5.857	11.45			
KV (cst) @ 100C	D445		0.8547	2.862	4.958			
Wax Content - wt%	UOP 46		6.2%	39.8%	57.4%			
Pour Pt - C	D97	48	-12	39	60			
Pour Pt - F	D97	118	10.4	102	140			
Cloud Pt - C	D2500		-9					
Cloud Pt - F	D2500		15.8					
Al, Si, C, Ni, Fe, Na, Ca, Zn, P - wppm	IP501	<10	<10	<10	<10	306		
Metals - wppm								
Arsenic		<1.0	<1.0	<1.0	<1.0	<1.0		
Copper		<.50	<.50	<.50	<.50	0.799		
Iron		1.05	0.21	0.156	0.85	93		
Nickel		<.50	<.50	<.50	<.50	1.52		
Vanadium		<.10	<.10	<.10	<.10	<.10		
Acid No. mg KOH/mg	D664	0.50	0.80	0.55	<.10	0.30		

DEPOLYMERIZED WAX ANALYSIS

REACTIVE ENERGY, INC.
PRIVATE LABEL SPECIALIZED WAX



Private Label Specialized Wax* is a synthetic straight chain, alpha olefin paraffin wax recovered from recycled plastic by Reactive Energy, Inc. proprietary processes. PLSW is considered to be a perfect eco-friendly replacement for petroleum wax used in motor oil, grease, and fuel additives, as well as a myriad of other applications, including chip board and oriented strand board (OSB) manufacturing, textile and leather finishing, and metal lubrication emulsions where odorless, non-toxic wax products are essential. PLSW is light brown to tan in color; free of benzene, toluene, xylene, and other cyclic hydrocarbons; and substantially free of heavy metals.

**Private Label Specialized Wax" (PLSW) is a working brand name until permanent registrations are submitted and approved.

Figure A: Depolymerized Wax Analysis

	ASTM	Whole					~Naphtha		~Diesel
		Fraction	650 (-)	650 - 850	850 - 960	960 (+)	400 (-)	400 - 650	
Yield - LV%	-	100%	46.8%	27.9%	16.5%	8.5%	21.0%	25.8%	
Yield - wt%	-	100%	45.5%	28.2%	16.9%	9.3%	20.0%	25.5%	
API Gravity (60F)	D5002	41.2	46.2	38.9	37.0	26.4	-	-	
Sulfur - wppm	D2622-05	28	24	22	24	43	-	-	
Nitrogen - wppm	D5762	170	280	120	91	260	-	-	
Bromine No.	D1159	-	48.9	11.6	5.7	-	-	-	
Refractive Index (60C)	D1747	-	1.4284	1.4400	1.4483	-	-	-	
KV (cst) @ 60C	D445	-	1.3212	5.857	11.45	-	-	-	
KV (cst) @ 100C	D445	-	0.8547	2.862	4.958	-	-	-	
Wax Content - wt%	UOP 46	-	6.2%	39.8%	57.4%	-	-	-	
Pour Pt - C	D97	48	12	39	60	-	-	-	
Pour Pt - F	D97	118	10.4	102	140	-	-	-	
Cloud Pt - C	D2500	-	9	-	-	-	-	-	
Cloud Pt - F	D2500	-	15.8	-	-	-	-	-	
Al, Si, C, Ni, Fe, Na, Ca, Zn, P - wppm	JP501	<10	<10	<10	<10	306	-	-	
Metals - wppm	-	-	-	-	-	-	-	-	
Arsenic	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	
Copper	-	<.50	<.50	<.50	<.50	0.799	-	-	
Iron	-	1.05	0.21	0.156	0.85	93	-	-	
Nickel	-	<.50	<.50	<.50	<.50	1.52	-	-	
Vanadium	-	<.10	<.10	<.10	<.10	<.10	-	-	
Acid No. mg KOH/mg	D664	0.50	0.80	0.55	<.10	0.30	-	-	

Figure B: Production Wax Simulated Distribution – July 26, 2013

Instrument 1 ASTM D 7169

Sample name	: REACTIVE ENERGY, INC.	Vial	: 201
Acquired on	: 7/26/2013 4:18:21 PM	Injection	: 1
Processed on	: 7/26/2013 5:02:28 PM	Sample (g)	: 0.00000
Sample type	: Lubes	Solvent (g)	: 0.00000
Method name	: ASTM D7169A-7890	ISTD (g)	: 0.00000
Operator	: Chemist		
Sequence name	: C:\CHEM32\SEQUENCE\13JUL26C.S		

Data File : 13JUL26C\201B0101.D

General Variables-Hydrocarbon

Used Blank	13JUL25\201B0101.D
Used BP Calibrate	07CAL05A\201B0101.D
Solvent Start	0.030
Solvent End	0.090
Used Start Elution (min.)	0.000
Used End Elution (min.)	38.010
Total Area	144474 (pA*s)
Used Removal	100.00 (%)

BP Distribution Table – Percent

Recovered	BP	Recovered	BP	Recovered	BP	Recovered	BP
mass%	°F	mass%	°F	mass%	°F	mass%	°F
IBP	208	26.0	525	520	691	78.0	836
1.0	235	27.0	538	53.0	693	79.0	839
2.0	260	28.0	543	54.0	700	80.0	848
3.0	282	29.0	545	55.0	710	81.0	854
4.0	293	30.0	551	56.0	713	82.0	860
5.0	329	31.0	565	57.0	715	83.0	869
6.0	337	32.0	570	58.0	724	84.0	873
7.0	347	33.0	572	59.0	731	85.0	882
8.0	368	34.0	578	60.0	734	86.0	887
9.0	376	35.0	589	61.0	737	87.0	896
10.0	381	36.0	596	62.0	747	88.0	903
11.0	398	37.0	598	63.0	751	89.0	911
12.0	412	38.0	601	64.0	754	90.0	921
13.0	416	39.0	614	65.0	761	91.0	928
14.0	426	40.0	621	66.0	769	92.0	937
15.0	443	41.0	624	67.0	771	93.0	948
16.0	448	42.0	628	68.0	776	94.0	960
17.0	452	43.0	639	69.0	785	95.0	973
18.0	459	44.0	646	70.0	788	96.0	990
19.0	475	45.0	648	71.0	792	97.0	1010
20.0	482	46.0	652	72.0	801	98.0	1036
21.0	485	47.0	663	73.0	805	99.0	1083
22.0	495	48.0	669	74.0	809	FBP	1175
23.0	510	49.0	671	75.0	818		
24.0	514	50.0	677	76.0	822		
25.0	517	51.0	687	77.0	828		

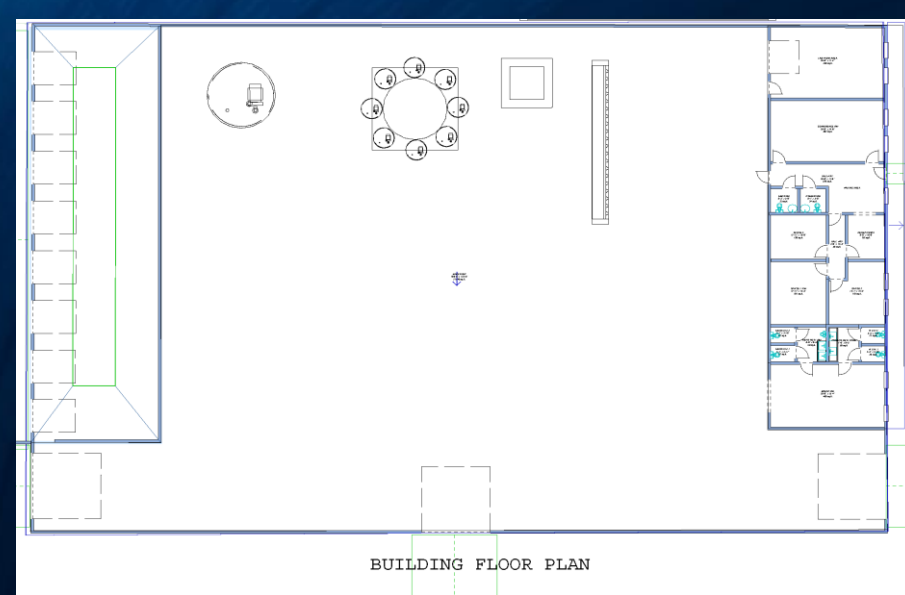
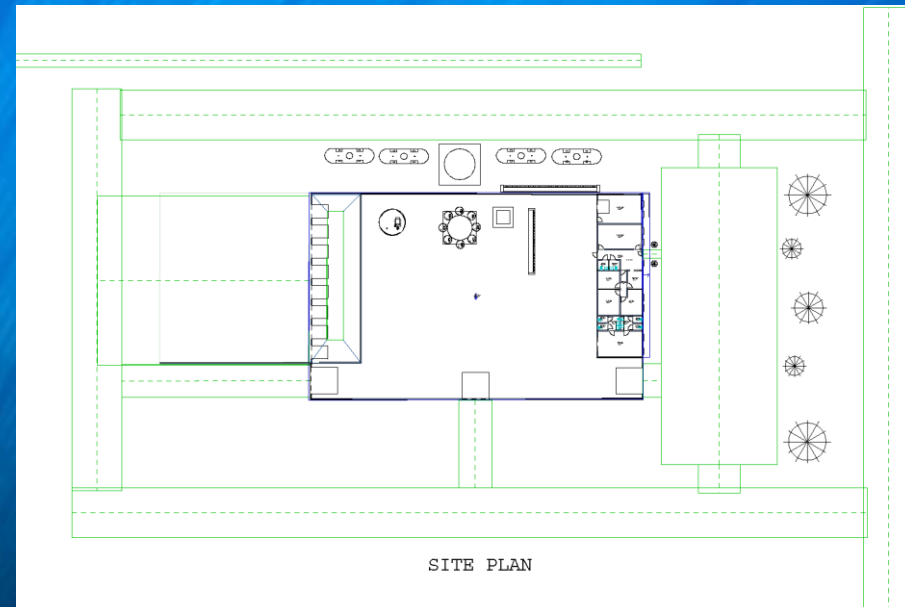
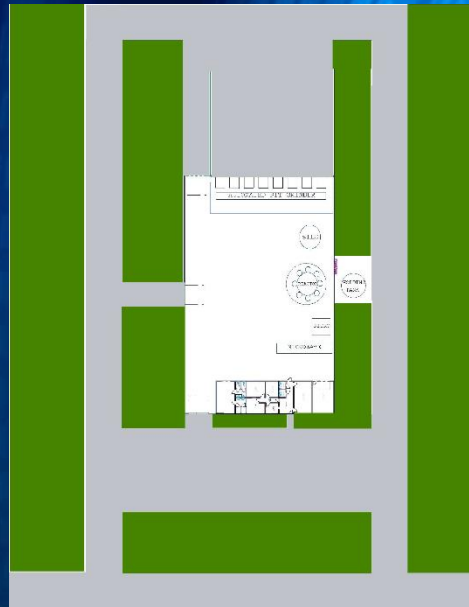
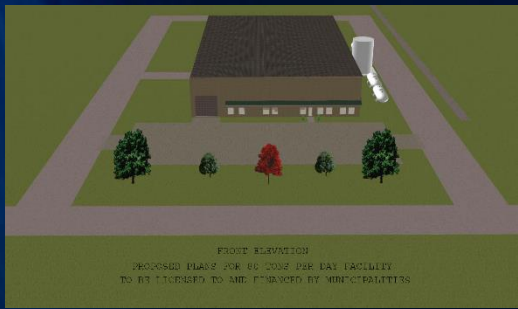
REI PRIVATE LABEL SYNCRUDE WAX



REACTIVE ENERGY, INC



THIS WAS THE PROCESSING PLANT IN BLACKVILLE, SC AND HOW THE PLANT OPERATED TO PRODUCE THE SYNTHETIC DIESEL FUEL AND SYNCRUDE WAX.



80 TON PER DAY FACILITY

THIS IS A 25,000 SQ. FT. FACILITY ON 3 ACRES WITH A FULLY AUTOMATED PLANT, A GRINDER PIT, 8 KETTLE REACTORS, 8 UNLOADING DOCKS TO HANDLE THE 80 TONS OF PLASTIC WASTE DAILY, AND A RAIL SPUR.