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Yanbu United Company For Trading and Industry (**YUNIGREEN**) is the largest plant for producing Re-Refined Base Oil in the Middle East and North Africa and is the sixth largest producer of re-refined base oils in the world, with annual production capacity of 200,000 k.t of Re-Refined Base Oil.

**YUNIGREEN** is located in Yanbu in Saudi Arabia and produce high quality Re-Refined Base Oil using the latest re-refining technologies and Exports its products to more than 60 countries across Asia, Africa, Europe and Latin America.

**Base Oil Produced:**

**Group I:**

- SN 150 Plus
- SN 300 Plus
- SN 500 Plus

**Group II:**

- N 150





# RE-REFINED BASE OILS TECHNICAL SPECIFICATIONS:

## Group I:

### SN 150 PLUS TECHNICAL SPECIFICATIONS:

SN	Property	Method	Units	Min	Max	Typical
1	Appearance	Visual	-	-	-	Clear & Bright
2	Density @15c	ASTM D 1298	Kg/L	0.850	0.865	0.860
3	Color	ASTM D 1500	-	1.4	2.0	1.5
4	Kinematic Viscosity @40c	ASTM D 445	cSt	28	35	32
5	Kinematic Viscosity @100c	ASTM D 445	cSt	5.00	5.80	5.30
6	Viscosity Index	ASTM D 2270	-	109	117	113
7	Flash Point, COC	ASTM D 92	°C	200	216	210
8	Flash Point, PMCC	ASTM D 93	°C	190	198	192
9	Pour Point	ASTM D97	°C	-9	-17	-11
10	Carbon Residue	ASTM D 4530	%wt	-	0.05	0.04
11	Neutralization No.	ASTM D 974	mgKOH/gm	-	0.05	0.04
12	Sulphur Content	ASTM D 4294	%wt	0.065	0.085	0.075
13	Total Chlorine	ASTM D 4929	mg/kg	-	2	2
14	Water & Sediments	ASTM D 6304	mg/kg	-	0.01	0.01
15	Acid Number	ASTM D 664	mgKOH/gm	-	0.01	0.01
16	Ash Content	ASTM D 482	%wt	-	0.006	0.006
17	Copper Corrosion 3Hrs @ 100 °C	ASTM D 130	-	-	-	1A
18	Glycol	ASTM D 4291	mg/kg	-	-	<10
19	CCS @-20c	ASTM D 5293	mPa.S	-	-	1925

### SN 500 PLUS TECHNICAL SPECIFICATIONS:

SN	Property	Method	Units	Min	Max	Typical
1	Appearance	Visual	-	-	-	Clear & Bright
2	Density @15c	ASTM D 1298	Kg/L	0.873	0.877	0.875
3	Color	ASTM D 1500	-	2.4	2.9	2.7
4	Kinematic Viscosity @40c	ASTM D 445	cSt	74	85	78
5	Kinematic Viscosity @100c	ASTM D 445	cSt	9.4	10.5	9.6
6	Viscosity Index	ASTM D 2270	-	105	107	106
7	Flash Point, COC	ASTM D 92	°C	245	260	248
8	Flash Point, PMCC	ASTM D 93	°C	225	235	228
9	Pour Point	ASTM D97	°C	-9	-15	-12
10	Micro Carbon Residue	ASTM D 4530	%wt	-	0.05	0.04
11	Neutralization No.	ASTM D 974	mgKOH/gm	-	0.05	0.04
12	Sulphur Content	ASTM D 4294	%wt	0.16	0.25	0.18
13	Total Chlorine	ASTM D 4929	mg/kg	-	2	2
14	Water & Sediments	ASTM D 6304	mg/kg	-	0.01	0.01
15	Acid Number	ASTM D 664	mgKOH/gm	-	0.02	0.02
16	Ash Content	ASTM D 482	%wt	-	0.006	0.006
17	Copper Corrosion 3Hrs @ 100 °C	ASTM D 130	-	-	-	1A
18	Glycol	ASTM D 4291	mg/kg	-	-	<10
19	CCS @-20c	ASTM D 5293	mPa.S	-	-	1925

### SN 300 PLUS TECHNICAL SPECIFICATIONS:

SN	Property	Method	Units	Min	Max	Typical
1	Appearance	Visual	-	-	-	Clear & Bright
2	Density @15c	ASTM D 1298	Kg/L	0.860	0.870	0.865
3	Color	ASTM D 1500	-	1.4	1.7	1.6
4	Kinematic Viscosity @40c	ASTM D 445	cSt	50	56	52
5	Kinematic Viscosity @100c	ASTM D 445	cSt	7.30	8.00	7.50
6	Viscosity Index	ASTM D 2270	-	112	118	113
7	Flash Point, COC	ASTM D 92	°C	225	235	230
8	Flash Point, PMCC	ASTM D 93	°C	215	220	215
9	Pour Point	ASTM D97	°C	-9	-16	-12
10	Carbon Residue	ASTM D 4530	%wt	-	0.05	0.04
11	Neutralization No.	ASTM D 974	mgKOH/gm	-	0.05	0.04
12	Sulphur Content	ASTM D 4294	%wt	0.16	0.25	0.18
13	Total Chlorine	ASTM D 4929	mg/kg	-	2	2
14	Water & Sediments	ASTM D 6304	mg/kg	-	0.01	0.01
15	Acid Number	ASTM D 664	mgKOH/gm	-	0.02	0.02
16	Ash Content	ASTM D 482	%wt	-	0.006	0.006
17	Copper Corrosion 3Hrs @ 100 °C	ASTM D 130	-	-	-	1A
18	Glycol	ASTM D 4291	mg/kg	-	-	<10
19	CCS @-20c	ASTM D 5293	mPa.S	-	-	1925

### N 150 TECHNICAL SPECIFICATIONS:

SN	Property	Method	Units	Min	Max	Typical
1	Appearance	Visual	-	-	-	Clear & Bright
2	Density @15c	ASTM D 1298	Kg/L	0.840	0.860	0.850
3	Color	ASTM D 1500	-	0.3	0.5	0.4
4	Kinematic Viscosity @40c	ASTM D 445	cSt	26	31	28
5	Kinematic Viscosity @100c	ASTM D 445	cSt	4.90	5.30	5.00
6	Viscosity Index	ASTM D 2270	-	114	118	116
7	Flash Point, COC	ASTM D 92	°C	210	220	216
8	Flash Point, PMCC	ASTM D 93	°C	190	197	192
9	Pour Point	ASTM D97	°C	-12	-18	-14
10	Carbon Residue	ASTM D 4530	%wt	-	0.04	0.03
11	Neutralization No.	ASTM D 974	mgKOH/gm	-	0.05	0.04
12	Sulphur Content	ASTM D 7419	ppm	50	300	150
13	Total Chlorine	ASTM D 4929	mg/kg	-	2	2
14	Water & Sediments	ASTM D 6304	mg/kg	-	0.003	0.003
15	Acid Number	ASTM D 664	mgKOH/gm	-	0.01	0.01
16	Ash Content	ASTM D 482	%wt	-	0.005	0.005
17	Copper Corrosion 3Hrs @ 100 °C	ASTM D 130	-	-	-	1A
18	Saturates	ASTM D 4291	mg/kg	97	98	97.5
19	NOACK Volatility	ASTM D5800	%mass	8	9	8.7
20	CCS @-20c	ASTM D 5293	mPa.S	1,200	1,400	1,300
21	CCS @-25c	ASTM D 5293	mPa.S	2,200	2,400	2,300
22	CCS @-30c	ASTM D 5293	mPa.S	4,100	4,300	4,600

