

**Red Line Oil Mix Chart**

ISO VG	VBN <sub>Blend</sub>	% Red Line Line (Like Water!, Clear)	% Red Line (Extra Light, Blue)	% Red Line (Like Water!, Clear)	% Red Line (Extra Light, Blue)	% Red Line (Extra Light, Blue)	% Red Line (Light, Yellow)	% Red Line (Extra Light, Blue)	% Red Line (Light, Yellow)	% Red Line (Light, Yellow)	% Red Line (Medium, Red)	% Red Line (Light, Yellow)	% Red Line (Medium, Red)	% Red Line (Medium, Red)	% Red Line (Heavy)	% Red Line (Medium, Red)	% Red Line (Heavy)
cSt @ 40C		5.5	9.80	5.5	9.80	9.80	18.40	9.80	18.40	18.40	30.40	18.40	30.40	30.40	66.80	30.40	66.80
VBN <sub>Component</sub>		19.84	23.46	19.84	23.46	23.46	26.72	23.46	26.72	26.72	28.93	26.72	28.93	28.93	31.88	28.93	31.88
Specific Gravity		0.797	0.806	0.797	0.806	0.806	0.816	0.806	0.816	0.816	0.828	0.816	0.828	0.828	0.849	0.828	0.849
Expansion = -.00037/deg f																	
		% Mass	% Mass	% Volume	% Volume	% Mass	% Mass	% Volume	% Volume	% Mass	% Mass	% Volume	% Volume	% Mass	% Mass	% Volume	% Volume
6	20.43	83.7%	16.3%	83.8%	16.2%												
7	21.44	55.9%	44.1%	56.2%	43.8%												
8	22.27	33.0%	67.0%	33.2%	66.8%												
9	22.97	13.6%	86.4%	13.7%	86.3%												
10	23.57					96.5%	3.5%	96.5%	3.5%								
11	24.11					80.2%	19.8%	80.4%	19.6%								
12	24.58					65.8%	34.2%	66.0%	34.0%								
13	25.00					52.8%	47.2%	53.1%	46.9%								
14	25.38					41.1%	58.9%	41.4%	58.6%								
15	25.73					30.4%	69.6%	30.7%	69.3%								
16	26.05					20.6%	79.4%	20.8%	79.2%								
17	26.34					11.6%	88.4%	11.7%	88.3%								
18	26.62					3.2%	96.8%	3.2%	96.8%								
19	26.87									93.2%	6.8%	93.3%	6.7%				
20	27.11									82.4%	17.6%	82.6%	17.4%				
21	27.33									72.3%	27.7%	72.6%	27.4%				
22	27.54									62.8%	37.2%	63.2%	36.8%				
23	27.74									53.9%	46.1%	54.2%	45.8%				
24	27.93									45.4%	54.6%	45.8%	54.2%				
25	28.11									37.4%	62.6%	37.7%	62.3%				
26	28.28									29.7%	70.3%	30.0%	70.0%				
27	28.44									22.4%	77.6%	22.7%	77.3%				
28	28.59									15.5%	84.5%	15.7%	84.3%				
29	28.74									8.8%	91.2%	8.9%	91.1%				
30	28.88									2.5%	97.5%	2.5%	97.5%				
31	29.01													97.3%	2.7%	97.3%	2.7%
32	29.14													92.9%	7.1%	93.0%	7.0%
33	29.27													88.7%	11.3%	88.9%	11.1%
34	29.39													84.6%	15.4%	84.9%	15.1%
35	29.50													80.7%	19.3%	81.1%	18.9%
36	29.61													76.9%	23.1%	77.3%	22.7%
37	29.72													73.2%	26.8%	73.7%	26.3%
38	29.83													69.7%	30.3%	70.2%	29.8%
39	29.93													66.3%	33.7%	66.8%	33.2%
40	30.02													63.0%	37.0%	63.5%	36.5%
41	30.12													59.8%	40.2%	60.4%	39.6%
42	30.21													56.6%	43.4%	57.3%	42.7%
43	30.30													53.6%	46.4%	54.2%	45.8%
44	30.39													50.7%	49.3%	51.3%	48.7%
45	30.47													47.8%	52.2%	48.4%	51.6%
46	30.55													45.0%	55.0%	45.7%	54.3%
47	30.63													42.3%	57.7%	43.0%	57.0%
48	30.71													39.7%	60.3%	40.3%	59.7%
49	30.79													37.1%	62.9%	37.7%	62.3%
50	30.86													34.6%	65.4%	35.2%	64.8%
51	30.93													32.2%	67.8%	32.7%	67.3%
52	31.00													29.8%	70.2%	30.3%	69.7%
53	31.07													27.5%	72.5%	28.0%	72.0%
54	31.14													25.2%	74.8%	25.7%	74.3%
55	31.20													23.0%	77.0%	23.4%	76.6%
56	31.27													20.8%	79.2%	21.2%	78.8%
57	31.33													18.7%	81.3%	19.1%	80.9%
58	31.39													16.6%	83.4%	17.0%	83.0%
59	31.45													14.6%	85.4%	14.9%	85.1%
60	31.51													12.6%	87.4%	12.8%	87.2%
61	31.57													10.6%	89.4%	10.9%	89.1%
62	31.62													8.7%	91.3%	8.9%	91.1%
63	31.68													6.8%	93.2%	7.0%	93.0%
64	31.73													5.0%	95.0%	5.1%	94.9%
65	31.79													3.2%	96.8%	3.2%	96.8%
66	31.84													1.4%	98.6%	1.4%	98.6%

**Suspension oil tuning**  
**based on ISO VG**  
**(viscosity grade)**  
**(ASTM D-2422-97 (2002)**  
**& ISO 3448:1992)**  
**Using Refutas equation**  
 \*\*\*  
**PVD**  
**www.petervedone.com**