

ENGINEERING and TECHNICAL

TYPICAL CHARACTERISTIC OF FUEL OIL

	GRADE OF FUEL OIL			
	#2	#4	#5	#6
WEIGHT PERCENT				
Carbon	86.1 - 88.2	86.5 - 89.2	86.5 - 89.2	86.5 - 90.2
Hydrogen	11.8 - 13.9	10.6 - 13.0	10.5 - 12.0	9.5 - 12.0
Sulfur	0.05 - 1.0	0.2 - 2.0	0.5 - 3.0	0.7 - 3.5
LB PER GALLON	7.39 - 6.87	8.04 - 7.30	8.10 - 7.68	8.51 - 7.68
VISCOSITY (Centistokes at 100°F)	1.9 - 3.0	10.5 - 65	65 - 200	260 - 750
WATER & SEDIMENT, VOL %	0 - 0.1	0 - 1.0	0.05 - 1.0	0.05 - 2.0
HHV, (BTU/LB)	19170 - 19750	18280 - 19400	18100 - 19020	17410 - 18990

Levels of Incomplete Combustion

	Natural Gas	#2 Fuel Oil	#6 Fuel Oil
Smoke Spot No	Should be no trace of smoke (indicates combustion problem) (No UL limit)	Under #1 Good #1 to #2 Fair to Poor over #2 Not Acceptable (UL limit is #2 spot)	Under #2 Good #2 to #3 Fair #3 to #4 Poor Over #4 Not Acceptable (UL limit is #4 Spot)
Carbon Monoxide (CO)	Under 100 PPM Excellent 100 to 200 PPM Good 200 to 300 PPM Fair 300 to 400 PPM Poor Over 400 PPM Not Acceptable	Under 50 PPM Good	Under 100 PPM Good
Hydrocarbons	Under 25 PPM - Good 25-50 PPM - Fair 50-75 PPM - Poor Over 75 PPM - Not Acceptable	-----	-----