

Models: ISB, ISC, ISL, M11, ISM				
Elements		Normal	Abnormal	Critical
<b>Fe</b>	Iron (except M11 series)	<105	105-160	>160
<b>Fe</b>	Iron (Cummins M11 series)	<85	85-150	>150
<b>Cr</b>	Chromium	<7	7-15	>15
<b>Pb</b>	Lead	<25	25-60	>60
<b>Cu</b>	Copper	<25	25-50	>50
<b>Sn</b>	Tin	<5	5-10	>10
<b>Al</b>	Aluminum	<10	10-25	>25
<b>Ni</b>	Nickel	<5	5-15	>15
<b>Ag</b>	Silver	<5	5-10	>10
<b>Mn</b>	Manganese	<2	2-6	>6
<b>Si</b>	Silicon	<15	15-25	>25
<b>B</b>	Boron	>85	85-60	<60
<b>Na</b>	Sodium	<30	30-60	>60
<b>Mg</b>	Magnesium	>600	600-300	<300
<b>Ca</b>	Calcium	>200	200-130	<130
<b>Ba</b>	Barium	*	*	*
<b>P</b>	Phosphorus	>1000	1000-750	<750
<b>Zn</b>	Zinc	>900	900-700	<700
<b>Mo</b>	Molybdenum	<15	15-40	>40
<b>Ti</b>	Titanium	*	*	*
<b>V</b>	Vanadium	*	*	*
<b>K</b>	Potassium	<10	10-20	>20
<b>Viscosity</b>		12.5-15.8	11.0-12.4/15.8-17.0	<11.0/>17.0
<b>Water</b>		<.5	NA	>.5
<b>Soot % M11 &amp; ISM</b>		<4.0	4.0-5.0	>5.0
<b>Soot % ISB, ISC, &amp; ISL</b>		<2.0	2.0-3.0	>3.0
<b>Fuel Dilution %</b>		<2	2 - 2.5	>2.5
<b>Glycol</b>		<.2	.2-.5	>.5
<b>Nitration</b>		<15	15-20	>20
<b>Oxidation</b>		<15	15-20	>20
<b>TAN "Total Acid #"</b>		<4.0	4.0-5.5	>5.5
<b>TBN "Total Base #"</b>		>4.0	3.5-4.0	<3.5

Note: This table should be used as a general guide only. These are recommendations for Cummins Diesel Engines.

Note: \* Lab test for these elements, but they are not normally found in engines applications.