



Elements		2 CYCLE (6V-92)			4 CYCLE-40, 50, 60 series		
		Normal	Abnormal	Critical	Normal	Abnormal	Critical
<b>Fe</b>	Iron	<120	120-150	>150	<150	150-175	>175
<b>Cr</b>	Chromium	<20	20-25	>25	<15	15-20	>20
<b>Pb</b>	Lead	<40	40-50	>50	<40	40-50	>50
<b>Cu</b>	Copper	<40	40-50	>50	<40	40-50	>50
<b>Sn</b>	Tin	<30	30-40	>40	<20	20-30	>30
<b>Al</b>	Aluminum	<20	20-30	>30	<30	30-40	>40
<b>Ni</b>	Nickel	*	*	*	*	*	*
<b>Ag</b>	Silver	*	*	*	*	*	*
<b>Mn</b>	Manganese	<2	2-6	>6	<2	2-6	>6
<b>Si</b>	Silicon	<15	15-30	>30	<15	15-30	>30
<b>B</b>	Boron	>85	85-60	<60	>85	85-60	<60
<b>Na</b>	Sodium	<20	>20	-	<20	>20	-
<b>Mg</b>	Magnesium	>600	600-300	<300	>600	600-300	<300
<b>Ca</b>	Calcium	>200	200-130	<130	>200	200-130	<130
<b>Ba</b>	Barium	*	*	*	*	*	*
<b>P</b>	Phosphorus	>1000	1000-750	<750	>1000	1000-750	<750
<b>Zn</b>	Zinc	>900	900-700	<700	>1000	1000-800	<800
<b>Mo</b>	Molybdenum	<15	15-40	>40	<15	15-40	>40
<b>Ti</b>	Titanium	*	*	*	*	*	*
<b>V</b>	Vanadium	*	*	*	*	*	*
<b>K</b>	Potassium	<2	2-4	>4	<2	2-4	>4
<b>Viscosity</b>		12.5-15.8	11.5-12.5/15.9-17.0	<11.5/>17.0	12.5-15.8	11.5-12.4/15.9-16.3	<11.5/>16.3
<b>Water</b>		<.1	.1 to .3	>.3	<.1	.1 to .3	>.3
<b>Soot %</b>		<1.5	1.5-3.0	>3.0	<3	3-4.5	>4.5
<b>Fuel Dilution %</b>		<2	2 - 2.5	>2.5	<2	2 - 2.5	>2.5
<b>Glycol</b>		<.2	.2-.5	>.5	<.2	.2-.5	>.5
<b>Nitration</b>		<15	15-20	>20	<15	15-20	>20
<b>Oxidation</b>		<15	15-20	>20	<15	15-20	>20
<b>TAN "Total Acid #"</b>		<3.5	3.5-4.0	>4.0	<3.5	3.5-4.0	>4.0
<b>TBN "Total Base #"</b>		>4.0	3.5-4.0	<3.5	>4.0	3.5-4.0	<3.5

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

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