

Basis: one oil drain interval at 15,000 miles

Engine Operating on 13ppm S fuel at 5.8 miles/gal fuel economy

Total fuel consumed 2586.2 gallons
 15,000 miles/5.8

Sulfur from fuel 0.236 lbs
 2586 gallons x 7.02 lbs/gal x 13ppm

Sulfur from Oil

Total Oil consumed 7.5 quarts
 15,000 miles/2000 miles/qt

lbs oil Consumed 13.5 lbs
 7.5 quarts x 7.2 lbs/gal/4 quarts/gal

Sulfur in lube at 0.4 mass% S

13.5 lbs * 0.4% 0.054 lbs

Total Sulfur from lube and fuel 0.290 lbs

% of sulfur from lube @ 0.4% S max in lube 18.6%

Sulfur in lube at 0.3 mass %S

13.5 lbs x 0.3% 0.041 lbs

Total Sulfur from lube and fuel 0.277 lbs

% of sulfur from lube @ 0.3% max in lube 14.6%

Sulfur in lube at 0.5 mass %S

13.5 lbs x 0.5% 0.0675 lbs

Total Sulfur from lube and fuel 0.304 lbs

% of sulfur from lube @ 0.3% max in lube 22.2%

4.9% Change in total Sulfur to DPF

9.8% Change in total Sulfur to DPF

