




**SMCS** - 1000,4450,7500


Ensure that all safety information, warnings, and instructions are read and understood before any operation or any maintenance procedures are performed. The user is responsible for the performance of maintenance, including all adjustments, the use of proper lubricants, fluids, and filters. The user is also responsible for the replacement of components due to normal wear and aging. Failure to adhere to proper maintenance intervals and procedures may result in diminished performance of the product and/or accelerated wear of components. Use fuel consumption, service hours, or calendar time, WHICH EVER OCCURS FIRST, to determine the maintenance intervals. Products that operate in severe operating conditions may require more frequent maintenance. Before each consecutive interval is performed, all maintenance from the previous interval must be performed.


## When Required


[Battery - Recycle](#) 


[Battery - Replace](#) 


[Battery or Battery Cable - Disconnect](#) 


[Engine - Clean](#) 


[Engine Oil Level Gauge - Calibrate](#) 


[Engine Storage Procedure - Check](#) 

[Fuel System - Prime](#) 


[Heat Exchanger - Inspect](#) 


[Maintenance Recommendations](#) 


[Sea Water Strainer - Clean/Inspect](#) 


[Zinc Rods - Inspect/Replace](#) 


## Daily


[Coolant Level - Check](#) 

[Engine Air Cleaner Service Indicator - Inspect](#) 

[Engine Oil Level - Check](#) 

[Fuel System Primary Filter/Water Separator - Drain](#) 


[Fumes Disposal Filter Service Indicator - Check](#) 


[Walk-Around Inspection](#) 


## Initial 20 to 40 Service Hours

[Belts - Inspect/Adjust/Replace](#) 

## Every 50 Service Hours or Weekly

[Aftercooler Condensate Drain Valve - Inspect/Clean](#) 

[Sea Water Strainer - Clean/Inspect](#) 

[Zinc Rods - Inspect/Replace](#) 

## Initial 500 Hours (for New Systems, Refilled Systems, and Converted Systems)

[Coolant Sample \(Level 2\) - Obtain](#) 


## Every 500 Service Hours


[Coolant Sample \(Level 1\) - Obtain](#) 


## Every 6000 Service Hours or 3 Years

[Coolant Extender \(ELC\) - Add](#) 

## First 14 400 L (3750 US gal) of Fuel or 250 Service Hours

[Engine Valve Lash - Check](#) 










[Engine Valve Rotators - Inspect](#) 

[Fuel Injector - Inspect/Adjust](#) 

## Every Year

[Coolant Sample \(Level 2\) - Obtain](#) 

## Every 14 400 L (3750 US gal) of Fuel or 250 Service Hours or 1 Year

[Auxiliary Water Pump \(Rubber Impeller\) - Inspect](#)   
[Belts - Inspect/Adjust/Replace](#)   
[Cooling System Supplemental Coolant Additive \(SCA\) - Test/Add](#)   
[Engine Air Cleaner Element \(Single Element\) - Inspect/Clean/Replace](#)   
[Engine Crankcase Breather - Clean](#)   
[Engine Oil Sample - Obtain](#)   
[Engine Oil and Filter - Change](#)   
[Fuel System Primary Filter \(Water Separator\) Element - Replace](#)   
[Fuel System Secondary Filter - Replace](#) 

Every 28 500 L (7500 US gal) of Fuel or 500 Service Hours or 1 Year (Deep Sump)

[Engine Oil and Filter - Change](#) 

Every 57 000 L (15 000 US gal) of Fuel or 1000 Service Hours

[Fumes Disposal Filter Element - Replace](#) 

[Heat Exchanger - Inspect](#) 

[Turbocharger - Inspect](#) 

Every 57 000 L (15 000 US gal) of Fuel or 1000 Service Hours or 2 Years

[Aftercooler Core - Clean/Test](#) 

Every 170 400 L (45 000 US gal) of Fuel or 3000 Service Hours

[Auxiliary Water Pump \(Bronze Impeller\) - Inspect](#) 

[Coolant Temperature Regulator - Replace](#) 

[Crankshaft Vibration Damper - Inspect](#) 

[Engine Mounts - Inspect](#) 

[Engine Speed/Timing Sensor - Clean/Inspect](#) 

[Engine Valve Lash - Check](#) 

[Engine Valve Rotators - Inspect](#) 

[Fuel Injector - Inspect/Adjust](#) 

[Starting Motor - Inspect](#) 

Every 284 000 L (75 000 US gal) of Fuel or 5000 Service Hours

[Alternator - Inspect](#) 

[Maintenance Recommendations](#) 

[Oil Cooler Core - Check/Clean/Test](#) 

[Overhaul \(Top End\)](#) 

[Water Pump - Inspect](#) 

Every 570 000 L (150 000 US gal) of Fuel or 10 000 Service Hours

[Overhaul \(Major\)](#) 

Every 12 000 Service Hours or 6 Years

[Coolant \(DEAC\) - Change](#) 

[Coolant \(ELC\) - Change](#) 

Every 6 Years

[Aftercooler Core - Replace](#) 

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