SEQUENCE VIE COOLANT SYSTEM CHECKLIST

Temperature Sensor					
Sensor Name	Type	Check	Location / Insertion Depth	Check	Comments
Engine Coolant Inlet Thermocouple	J or K type		Within 15cm (5.9") of housing inlet		
	1/8" diameter		Midstream of medium measured		
			2" or less of sheath exposed to ambient		
Engine Coolant Outlet Thermocouple	J or K type		Within 8cm (3.15") of housing outlet		
	1/8" diameter		Midstream of medium measured		
			2" or less of sheath exposed to ambient		

Pressure Sensor					
Sensor Name	Type	Check	Model / Specifications	Check	Comments
Coolant Flow (DPT-1)	Viatran		274/374		
Differential Pressure Transducer	Validyne		DP15		
	Rosemount		11512 or 3051		

Control Valves					
	Valve Description				
Control Valve Name	Type	Check	Model	Check	Comments
Coolant Flow Control Valve (TCV-101)	Badger Meter (1") 2 - way globe		9001GCW36SV3Axxx36 or 9001GCW36SV1Axxx36		Recommended valves
Coolant Flow Control Valve [2] (TCV-104)	Badger Meter (2") 3 - way globe		9003TCW36SV1A29L36 (c.v.= 16) or 9003TCW36SV3A29L36 (c.v. = 16) or 9003TCW36SV1AxxL36 or 9003TCW36SV3AxxL36		
Coolant Flow Control Valve[1] (FCV-103)	Badger Meter (2") 2 - way globe		9003GCW36SV3A29L36		

[1] IF VFD is utilized, then FCV-103 is not required, suitable valves only, IL10-3 no longer requires these valves

[2] Not required with alternate system

SEQUENCE VIE COOLANT SYSTEM CHECKLIST

Part Description	Type	Check	Model / Specifications	Check	Comments
Coolant Flow Pump					Must be capable of providing 80+/- 4 L/min
(P-1)					Identify type, and specs
	ITT Standard		320-20, PN 5-686-06-020-001 or		
Coolant Heat Exchanger	ITT Bell & Gossett		BP-75H-20, PN 5-686-06-020-001 or		
(HX-1)	ITT Bell & Gossett		BP420-20, PN 5-686-06-020-005		
	ITT Bell & Gossett		BP422-20, PN 5-686-06-020-007		
Alternate System	ITT		BGF-5-030-06-048-001		

Part Description	Type	Check	Specifications	Check	Comments
Coolant Differential Pressure Orfice Plate (FE-103)	Daniels 1 1/2 inch NPT Series # 30 RT		Is there 10 diameters upstream and 5 diameters downstream of straight, smooth pipe, no reducers or increasers		
Coolant Orice Plate (OP-1)	Optional, for alter-nate configuration				

Part Description	Specifications	Check	Comments
Engine Water Pump	Water pump removed and replaced with a water pump plate as shown in Figure A2.6		
Sight Glass (SG-1)	38.1 mm (1 1/2 in.) NPT		
Requirements		Check	Comments
Is the coolant system configured as shown in Figures A2.1 through A2.4?			
Does the coolant system meet the nominal pipe I.D. shown in Figure A2.2 through A2.4?			
Is the coolant system a closed system, pressurized 100 +/- 10 kPa, with coolant reservoir/overflow tank			
Is cap or relief valve used to control pressure?			
Has modified freeze plug been installed in the intake?			