

# THERMO KING® TRUCK, TRAILER, CR, DAS, DSR ALARM CODES

THIS DOCUMENT SHOWS ALL CURRENT TRUCK, TRAILER, CR, DAS, AND DSR ALARM CODES. NOT ALL CODES ARE POSSIBLE ON ALL UNITS.

IF THE ALARM APPLIES TO A MULTI-TEMP ZONE, THAT ZONE WILL BE IDENTIFIED.

BE SURE TO RECORD ALL ALARMS THAT OCCUR. THEY ARE VALUABLE TO THE SERVICE TECHNICIAN.

ALARM CODE NUMBERS MARKED WITH PARTENTHESIS (XX) MAY EXIST WITH ALARM CODE 84 AND MAY CLEAR AUTOMATICALLY.

<b>COLOR CODE DEFINITIONS</b>	<b>OK TO RUN</b>	<b>CHECK AS SPECIFIED</b>	<b>TAKE IMMEDIATE ACTION</b>
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THESE ARE SUGGESTIONS ONLY. ALWAYS CONSULT YOUR COMPANY FOR FINAL DECISIONS.

Num	Color	Description	Operator Action
00		No Alarms Exist	No action required.
02		Check Evaporator Coil Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
03		Check (Control) Return Air Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
04		Check (Control) Discharge Air Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
05		Check Ambient Temp Sensor	Report alarm at end of day.
06		Check Coolant Temp Sensor	Report alarm at end of day.
07		Check Engine RPM Sensor	Report alarm at end of day.
08		Unit Running on Coil Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
(09)		High Evaporator Temperature (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
(10)		High Discharge Pressure (or Temperature)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
11		Unit or Zone Controlling on Alternate Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
12		Sensor or Digital Input Shutdown (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
13		Sensor Check (Zone)	Manually monitor temperature. Report alarm at end of day.
14		Defrost Terminated by Time	Report alarm at end of day.
15		Check Glow Plugs or Intake Air Heater	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
16		Manual Start Not Completed	Report alarm at end of day.
(17)		Engine Failed to Crank	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
(18)		High Engine Coolant Temperature	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
(19)		Low Engine Oil Pressure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
(20)		Engine (Vapor Motor CR) Failed to Start	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
(21)		Cooling Cycle Check (Zone)	Manually monitor temperature. Report alarm at end of day.
(22)		Heating Cycle Check (Zone)	Manually monitor temperature. Report alarm at end of day.
23		Cooling Cycle Fault (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
24		Heating Cycle Fault (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
25		Alternator Check	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
(26)		Check Refrigeration Capacity (Zone)	Manually monitor temperature. Report alarm at end of day.
(27)		Vapor Motor RPM High (CR)	Unit cannot operate and is shut down. Repair immediately.
28		Pretrip or Self Check Abort	Report alarm at end of day.
29		Defrost Damper Circuit Check (Zone)	Manually monitor temperature. Report alarm at end of day.
30		Defrost Damper Stuck Closed (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
31		Check Oil Pressure Switch	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
32		Refrigeration Capacity Low (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
33		Check Engine RPM	Report alarm at end of day.
34		Check Modulation Circuit	Manually monitor temperature. Report alarm at end of day.
35		Check Run Relay Circuit	Unit cannot operate and is shut down. Repair immediately.
(36)		Electric Motor Failed to Run	Unit cannot operate and is shut down. Repair immediately. Switch to Diesel Mode
37		Check Engine Coolant Level	Report alarm at end of day.
38		Electric Phase Reversed	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
39		Check Water Valve Circuit	Manually monitor temperature. Report alarm at end of day.
40		Check High Speed Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
41		Check Engine Coolant Temp	Report alarm at end of day.
42		Unit Forced to Low Speed	Report alarm at end of day.
43		Unit Forced to Low Speed Modulation	Report alarm at end of day.
44		Check Fuel System	Add fuel as necessary. Otherwise, report alarm at end of day.
45		Check Hot Gas or Hot Gas Bypass Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
46		Check Air Flow (Zone)	Manually monitor temperature. Report alarm at end of day.
47		Remote Sensor Shutdown	Unit/zone cannot operate and is shut down. Repair immediately.
48		Check Belts or Clutch	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
49		Check Spare Sensor 1	Report alarm at end of day.
50		Reset Clock	Report alarm at end of day.
51		Check Shutdown Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
52		Check Heat Circuit (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
53		Check Economizer Valve Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
54		Test Mode Timeout	Clear alarm and restart unit.
55		Check Engine Speeds	Report alarm at end of day.
56		Check Evaporator Fan Low Speed (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
57		Check Evaporator Fan High Speed (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
61		Low Battery Voltage	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
62		Ammeter Out of Calibration	Unit cannot operate and is shut down. Repair immediately.
(63)		Engine or Vapor Motor Stopped	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
64		Pretrip Reminder	Report alarm at end of day.
65		Abnormal Temperature Differential (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
66		Low Engine Oil Level	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
67		Check Liquid Line Solenoid Circuit (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
68		Internal Controller Fault Code	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
70		Hourmeter Failure	Report alarm at end of day.
71		Hourmeter 4 Exceeds Set Time Limit	Report alarm at end of day.
72		Hourmeter 5 Exceeds Set Time Limit	Report alarm at end of day.
73		Hourmeter 6 Exceeds Set Time Limit	Report alarm at end of day.
74		Controller Reset to Defaults	Report alarm at end of day.
75		Controller RAM Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
76		Controller EPROM Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
77		Controller EPROM Checksum Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
78		Data Log EPROM Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
79		Internal Data Logger Overflow	Report alarm at end of day.
80		Check Compressor Temp Sensor	Report alarm at end of day.
81		High Compressor Temp	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
82		High Compressor Temp Shutdown	Unit cannot operate and is shut down. Repair immediately.
83		Low Engine Coolant Temp	Report alarm at end of day.
84		Restart Null	Report alarm at end of day.
85		Forced Unit Operation	Report alarm at end of day.
86		Check Discharge Pressure Sensor	Report alarm at end of day.
87		Check Suction Pressure Sensor	Report alarm at end of day.
88		Reserved for CR	
89		Check Electronic Throttling Valve (ETV) Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
90		Electric Overload	If unit is shut down repair immediately. Otherwise, report alarm at end of day.

<b>COLOR CODE DEFINITIONS</b>	<b>OK TO RUN</b>	<b>CHECK AS SPECIFIED</b>	<b>TAKE IMMEDIATE ACTION</b>
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**THESE ARE SUGGESTIONS ONLY. ALWAYS CONSULT YOUR COMPANY FOR FINAL DECISIONS.**

Num	Color	Description	Operator Action
91		Check Electric Ready Input	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
92		Sensor Grades Not Set (Zone)	Report alarm at end of day.
93		Low Compressor Suction Pressure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
94		Check Loader #1 Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
95		Check Loader #2 Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
96		Low Fuel Level	Add fuel as required.
97		Failed Remote Return Air Sensor (CR)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
98		Check Fuel Level Sensor	Report alarm at end of day.
99		High Compressor Pressure Ratio	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
(100)		Heater Fan Failure (CR)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
101		Controlling on Evap Coil Outlet Temp (CR)	Manually monitor temperature. Report alarm at end of day.
(102)		Low Evaporator Coil Temperature (CR)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
103		Low Heater Fuel Level (CR)	Manually monitor temperature. Report alarm at end of day.
104		Check Remote Fan Speed (Zone)	Manually monitor temperature. Report alarm at end of day.
105		Check Receiver Tank Press Sol Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
106		Check Purge Valve Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
107		Check Condenser Inlet Sol Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
108		Door Open Timeout (Zone)	Close doors. Report alarm at end of day.
109		Check High Discharge Pressure Sensor	Replaced by Alarm Code 86
110		Check Suction Line Sol Circuit (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
111		Unit Not Configured Correctly (Zone)	Report alarm at end of day.
112		Check Remote Fans (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
113		Check Electric Heat Circuit (Zone)	Manually monitor temperature. Report alarm at end of day.
114		Multiple Alarms - Can Not Run (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
115		Check High Pressure Cut Out Switch	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
116		Check High Pressure Cut In Switch	Report alarm at end of day.
117		Auto Switch from Diesel to Electric	Normal operation – does not affect performance.
118		Auto Switch from Electric to Diesel	Normal operation – does not affect performance.
119		Reserved for CR	
120		Check Alternator Excite Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
121		Check PMW Liquid Injection Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
122		Check Diesel/Electric Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
123		Check Evap Coil Inlet Temp Sensor (CR)	Manually monitor temperature. Report alarm at end of day.
124		Check Evap Coil Outlet Temp Sensor (CR)	Report alarm at end of day.
125		Check Tank Level Sensor (CR)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
126		Check Back Pressure Regulator (CR)	Manually monitor load temperature. Report this alarm at the end of the day.
127		Setpoint Not Entered (Zone)	Be sure setpoint is adjusted to required temperature.
128		Engine Run Time Maint Reminder #1/Service Due	Report alarm at end of day.
129		Engine Run Time Maint Reminder #2	Report alarm at end of day.
130		Electric Run Time Maint Reminder #1	Report alarm at end of day.
131		Electric Run Time Maint Reminder #2	Report alarm at end of day.
132		Total Unit Run Time Maint Reminder #1	Report alarm at end of day.
133		Total Unit Run Time Maint Reminder #2	Report alarm at end of day.
134		Controller Power On Hours	Report alarm at end of day.
135		Check Spare Digital Inputs	Report alarm at end of day.
136		Check Spare Digital Outputs	Report alarm at end of day.
137		Check Damper Motor Heater Output	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
138		Log DAS Real Time Clock Battery Failure (DAS)	Report alarm at end of day.
139		Abort Evacuation Mode	Report alarm at end of day.
140		Not currently used	
141		Auto Switch Diesel to Electric Disabled	Report alarm at end of day.
142		Check Thermax Valve	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
143		Check Remote Drain Hose Heater Output (Zone)	Report alarm at end of day.
144		Lost CAN Communications to Expansion Module	Unit cannot operate and is shut down. Repair immediately.
145		Lost Controller ON Feedback Signal	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
146		Software Version Mismatch	Report alarm at end of day.
147		Check Multi-Temp Fan Speed Control Output (Zone)	Manually monitor load temperature. Report this alarm at the end of the day.
148		Auto Switch Electric to Diesel Disabled	Report alarm at end of day.
149		Alarm Not Identified	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
150		Sensor Out of Range Low (DAS and HMI) (Zone)	Report alarm at end of day.
151		Sensor Out of Range High (DAS and HMI) (Zone)	Report alarm at end of day.
152		DAS Failed Sensor (DAS)	Report alarm at end of day.
153		Expansion Module Flash Load Failure	Report alarm at end of day.
154		Low Suction Pressure Switch Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
155		Lost CAN Communications to HMI	Unit cannot operate and is shut down. Repair immediately.
156		Check Suction/Liquid Heat Exchanger Bypass Valve	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
157		OptiSet Plus Profile Mismatch	Report alarm at end of day.
158		Primary Software Failed to Load	Report alarm at end of day.
159		Check Battery Condition	Report alarm at end of day.
160		Lost CAN Communications to Radio Expansion Board	Report alarm at end of day.
161		Log DAS Real Time Clock Invalid (DAS)	Report alarm at end of day.
163		Emission Control Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
165		Low Engine Power Available	Report alarm at end of day.
175		Check Electronic Expansion Valve (CR)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
176		Check Evaporator Pressure Sensor (CR)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
177		Check CO <sub>2</sub> Tank Pressure Sensor (CR)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
178		Low CO <sub>2</sub> Fuel Level (CR)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
180		TriPac Compressor Alarm	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
188		Log DAS Microprocessor Fault (DAS)	Report alarm at end of day.
203		Check Display Return Air Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
204		Check Display Discharge Air Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
216		Check DAS Digital Inputs (DAS)	Report alarm at end of day.
233		REB Switching Off, Conservative to Full Null	Report alarm at end of day.
234		Check Relative Humidity Sensor Circuit	Report alarm at end of day.
235		High Engine Coolant Temperature Check	Report alarm at end of day.
250		DAS Clock Time Reset (DAS)	Report alarm at end of day.
251		Check Radio Expansion Board Configuration	Report alarm at end of day.
252		Check Auto Fresh Air Exchange Circuit	Report alarm at end of day.
253		REB On Back Up Battery, Alarms Disabled	Report alarm at end of day.
254		Check Auxiliary Coolant Temp Sensor	Report alarm at end of day.

# THERMO KING PRECEDENT® 500 SERIES ALARM CODES

The 500 Series Thermo King Alarm Codes shown below are used on Thermo King Precedent applications.

COLOR CODE DEFINITIONS		OK TO RUN	CHECK AS SPECIFIED	TAKE IMMEDIATE ACTION
<b>THESE ARE SUGGESTIONS ONLY. ALWAYS CONSULT YOUR COMPANY FOR FINAL DECISIONS.</b>				
Num	Color	Description	Operator Action	
500	Yellow	Check Host Evaporator Blower Low Speed	Not implemented	
501	Yellow	Check Host Evaporator Blower High Speed	Not implemented	
505	Yellow	Check Roadside Condenser Fan Motor Speed Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
506	Yellow	Check Curbside Condenser Fan Motor Speed Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
507	Green	Check Digital Scroll Output Circuit (Scroll Only)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
508	Green	Speed Request Communication Error	Report alarm at end of day.	
509	Yellow	ECU Failed to Enable	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
510	Yellow	ECU Run Signal Failed	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
511	Green	Engine Wait to Start Time Delay Expired	Report alarm at end of day.	
512	Yellow	High Compressor Suction Pressure (Scroll Only)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
513	Yellow	Low Compressor Suction Ratio (Scroll Only)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
514	Yellow	Low Compressor Discharge Pressure (Scroll Only)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
515	Yellow	Minimum ETV Discharge Superheat Temp (Scroll)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
516	Red	I/O Controller to Application Controller Com Failure	The unit is no longer able to operate and has been shut down. Repair immediately.	
518	Yellow	Generator Ground Fault	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
519	Yellow	Check Battery Charger Input Power	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
520	Yellow	Check Battery Charger Output Power	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
521	Yellow	Battery Charger External/Environmental Fault	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
522	Yellow	Battery Temperature Sensor Alarm	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
523	Yellow	Battery Charger Indicated Conditions	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
524	Yellow	Generator Op Limit $V_{out}$ to Frequency Ration	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
525	Yellow	Generator Frequency Range Fault	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
526	Yellow	Generator Operational Limit Output Current	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
528	Yellow	Failed J1939 CAN Comm Base Controller/Charger	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
529	Yellow	Check Fuel Pump Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
530	Yellow	Low Pressure Differential (Scroll only)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
531	Yellow	Check Economizer Pressure Sensor (Scroll only)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
538	Yellow	Engine J1939 CAN Data Link Degraded	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
539	Yellow	Engine J1939 CAN Data Link Failed	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
540	Yellow	Illegal Engine Operating State	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
542	Green	Battery Charger Fault – Unit Forced to Low Speed	Maintenance information only. Report alarm at end of day.	
543	Green	Battery Charger Internal Short	Maintenance information only. Report alarm at end of day.	
544	Green	Battery Charger External Short	Maintenance information only. Report alarm at end of day.	
545	Green	Battery Charger Output Voltage Exceeded Limit	Maintenance information only. Report alarm at end of day.	
546	Green	Battery Charger Operating Bulk Voltage Out of Range	Maintenance information only. Report alarm at end of day.	
547	Yellow	AC Bus Phase Loss	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
548	Green	Battery Charger Temperature Below Operating Range	Maintenance information only. Report alarm at end of day.	
549	Green	Battery Charger AC Input Overvoltage	Maintenance information only. Report alarm at end of day.	
550	Yellow	Battery Charger Internal Overvoltage Fault	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
551	Green	Battery Charger Internal Temp Sensor Fault		
552	Green	Battery Charger Charging – Low Battery		
553	Green	Battery Charger Operating Derated Due to High temp		
570	Yellow	Clean EGR Soon	Report alarm at end of day.	
599	Green	Engine Service Tool Connected	Report alarm at end of day.	

## PRECEDENT 600 SERIES YANMAR DIAGNOSTIC TROUBLE CODES (DTC)

If the Yanmar Engine Control Unit (ECU) determines an engine related problem exists, one or more Yanmar Diagnostic Trouble Codes (DTC's) will be set by the ECU. As a result, one or more Thermo King 6xx codes will also be set and displayed on the HMI Control Panel and the ServiceWatch Data Logger as shown below.

COLOR CODE DEFINITIONS		OK TO RUN	CHECK AS SPECIFIED	TAKE IMMEDIATE ACTION
<b>THESE ARE SUGGESTIONS ONLY. ALWAYS CONSULT YOUR COMPANY FOR FINAL DECISIONS.</b>				
Num	Color	Description	Operator Action	
600	Green	Check Crankshaft Speed Sensor	Report alarm at end of day.	
601	Green	Check Camshaft Speed Sensor	Report alarm at end of day.	
602	Green	Check Intake Throttle Position Sensor	Report alarm at end of day.	
603	Green	Check Exhaust Pressure Sensor	Report alarm at end of day.	
604	Green	Check Coolant Temp Sensor	Report alarm at end of day.	
605	Green	Check Fresh Air Temp Sensor	Report alarm at end of day.	
607	Green	Check Fuel Temperature Sensor	Report alarm at end of day.	
608	Green	Check Rail Pressure Sensor	Report alarm at end of day.	
609	Green	Check Intake Pressure Sensor	Report alarm at end of day.	
610	Green	Check Atmospheric Pressure Sensor	Report alarm at end of day.	
611	Green	Check Glow Plug Circuit	Report alarm at end of day.	
612	Green	Check Intake Throttle Circuit	Report alarm at end of day.	
613	Green	Check Injectors	Report alarm at end of day.	
614	Green	Check High Pressure Fuel Pump	Report alarm at end of day.	
615	Yellow	Rail Pressure Fault	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
616	Yellow	Engine Overspeed	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
617	Yellow	Internal ECU Fault	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
618	Green	Check EGR System	Report alarm at end of day.	
619	Green	ECU Main Relay Fault	Report alarm at end of day.	
620	Yellow	No RPM Detected During Start Attempt	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
623	Green	TRUCAN Message Timeout	Report alarm at end of day.	
624	Green	Check EGR Temperature Sensor	Report alarm at end of day.	
625	Green	Check Intake Air Temperature Sensor	Report alarm at end of day.	
626	Green	Check Exhaust Temperature Sensor	Report alarm at end of day.	
642	Green	ECU Forced Low Speed	Report alarm at end of day.	
699	Yellow	Unknown ECU Fault	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	

# DIRECT SMART REEFER (DSR) ALARM CODES

The DSR Series Thermo King Alarm Codes shown below are used on Thermo King Direct Smart Reefer applications.

COLOR CODE DEFINITIONS		OK TO RUN	CHECK AS SPECIFIED	TAKE IMMEDIATE ACTION
<b>THESE ARE SUGGESTIONS ONLY. ALWAYS CONSULT YOUR COMPANY FOR FINAL DECISIONS.</b>				
Code	Color	Description	Operator Action	
P1E	Yellow	Return Air Temperature Sensor Fault	Report alarm at end of day.	
P2E	Yellow	Remote Return Air Temperature Sensor Fault	Report alarm at end of day.	
OL	Red	Electric Standby Overload	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
bAt	Red	Low Battery Voltage	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
HP	Red	High Discharge Pressure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
LP	Red	Low Suction Pressure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
PSE	Red	High Pressure Sensor Fault	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
tEP	Red	Electric Standby Motor Thermal Protection Alarm	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
tP4	Red	Power Supply Thermal Protection Alarm	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
dr1	Yellow	Door 1 Open/Door Switch 1 Failure	Close door. Report alarm at end of day.	
dr2	Yellow	Door 2 Open/Door Switch 2 Failure	Close door. Report alarm at end of day.	
tCO	Red	Electronic Control Module Internal Temperature Exceeds Limit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
SOF	Red	Microprocessor Software Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
- C -	Red	Communications Failure, Microprocessor to In-Cab Control Box	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	