Genie®
A TEREX COMPANY

Service and Repair Manual

SX™-105 XC™
SX™-125 XC™

Serial Number Range

from SX105D-174

from SX125D-375

This manual includes:
Repair procedures
Fault Codes
Electrical and
Hydraulic Schematics

For detailed maintenance procedures, refer to the appropriate Maintenance Manual for your machine.

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Specifications

For operational specifications, refer to the Operator's Manual.

Hydraulic Oil Specifications

Hydraulic Fluid Specifications	
Genie specifications require hydraulic oils which are designed to give maximum protection to hydraulic systems, have the ability to perform over a wide temperature range, and the viscosity index should exceed 140. They should provide excellent antiwear, oxidation prevention, corrosion inhibition, seal conditioning, and foam and aeration suppression properties.	
Cleanliness level, minimum	ISO 15/13
Water content, maximum	250 ppm
Recommended Hydraulic Fluid	
Hydraulic oil type	Chevron Rando HD Premium
Viscosity grade	32
Viscosity index	200
Optional Hydraulic Fluids	
Mineral based	Shell Tellus S2 V 32 Shell Tellus S2 V 46 Shell Tellus S4 VX 32 Shell Shell Donax TG (Dexron III) Chevron 5606A
Biodegradable	Petro Canada Environ MV 46
Fire resistant	UCON Hydrolube HP-5046

Note: Genie specifications require additional equipment and special installation instructions for the approved optional fluids. Consult Genie Product Support before use.

NOTICE

Optional fluids may not have the same hydraulic lifespan and may result in component damage.

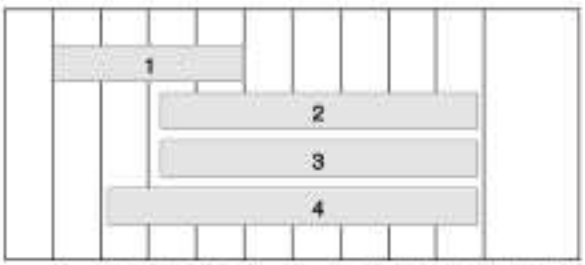
Note: Extended machine operation can cause the hydraulic fluid temperature to increase beyond it's maximum allowable range. If the hydraulic fluid temperature consistently exceeds 200°F / 90°C an optional oil cooler may be required.

NOTICE

Do not top off with incompatible hydraulic fluids. Hydraulic fluids may be incompatible due to the differences in base additive chemistry. When incompatible fluids are mixed, insoluble materials may form and deposit in the hydraulic system, plugging hydraulic lines, filters, control valves and may result in component damage.

Note: Do not operate the machine when the ambient air temperature is consistently above 120°F / 49°C.

Hydraulic Fluid Temperature Range



Ambient air temperature

1 Chevron hydraulic oil 5606A
2 Petro-Canada Environ MV 46
3 UCON Hydrolube HP-5046D
4 Chevron Rando HD premium oil MV

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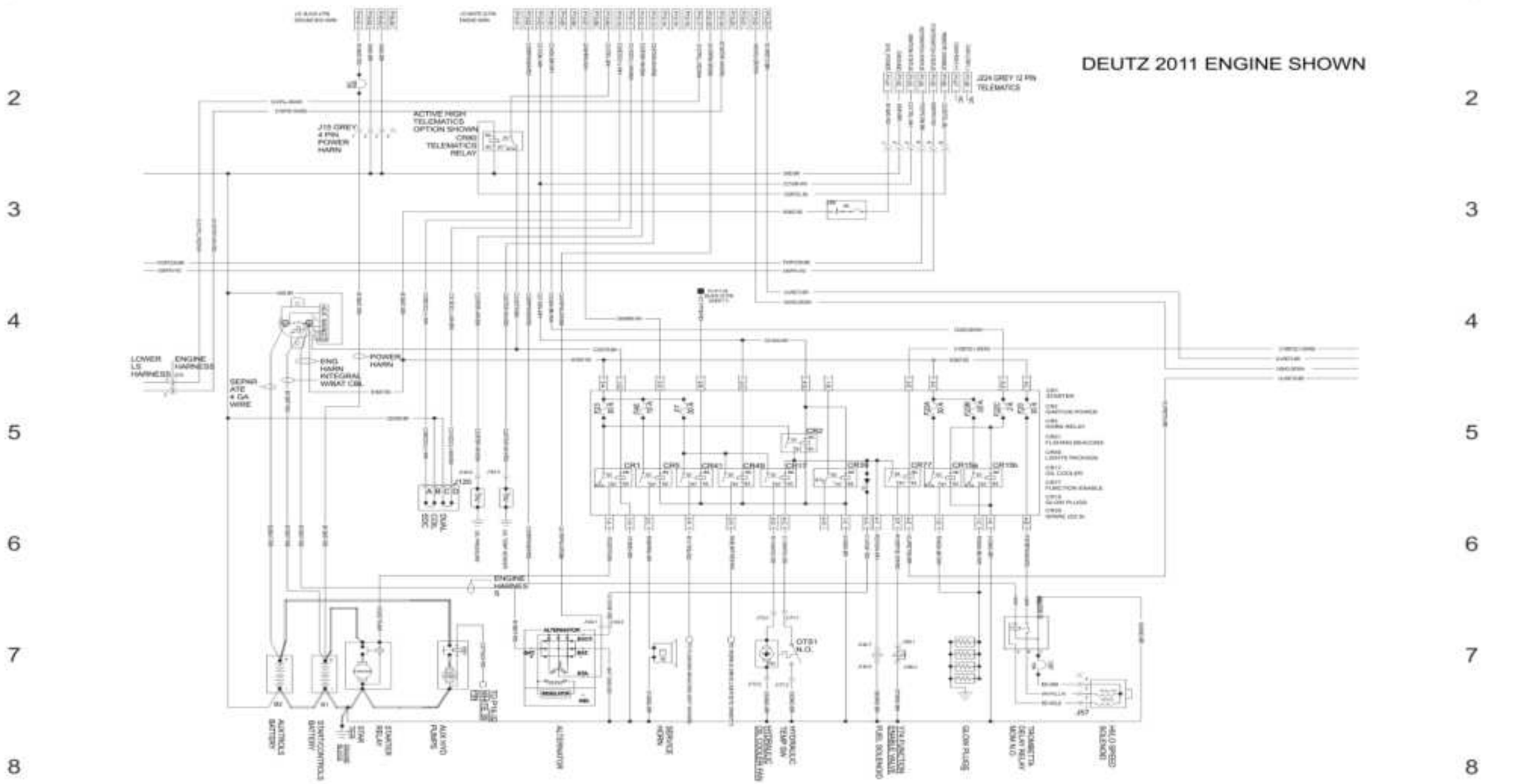
Perkins 854F-34T Engine Fault Code

SPN = Suspect Parameter Number
FMI = Failure Mode Identifier

SPN	FMI	Description	Refer to Engine Manual
3702	6	Diesel Particulate Filter Active Regeneration Inhibited Status : Current Above Normal	Indicator Lamp Circuit- Test
4765	3	After treatment #1 Diesel Oxidation Catalyst Intake Gas Temperature :Voltage Above Normal	Engine Temperature Sensor Open or Short Circuit - Test
4765	4	After treatment #1 Diesel Oxidation Catalyst Intake Gas Temperature :Voltage Below Normal	Engine Temperature Sensor Open or Short Circuit- Test
5055	17	Engine Oil Viscosity : Low - least severe (1)	Oil Contains Fuel
5055	18	Engine Oil Viscosity : Low - moderate severity (2)	Oil Contains Fuel
5099	6	Engine Oil Pressure Low Lamp Data : Current Above Normal	Indicator Lamp Circuit- Test
5319	31	After treatment Diesel Particulate Filter Incomplete Regeneration	Diesel Particulate Filter Active Regeneration Was Interrupted
5324	7	Engine Glow Plug 1: Not Responding Properly	Glow Plug Starting Aid - Test
5325	7	Engine Glow Plug 2 :Not Responding Properly	Glow Plug Starting Aid - Test
5326	7	Engine Glow Plug 3 :Not Responding Properly	Glow Plug Starting Aid - Test
5327	7	Engine Glow Plug 4 :Not Responding Properly	Glow Plug Starting Aid - Test
5419	5	Engine Throttle Actuator #1 :Current Below Normal	Motorized Valve- Test
5419	6	Engine Throttle Actuator #1 :Current Above Normal	Motorized Valve - Test
5419	7	Engine Throttle Actuator #1 :Not Responding Properly	Motorized Valve- Test
5571	2	High Pressure Common Rail Fuel Pressure Relief Valve :Erratic, Intermittent, or Incorrect	Fuel Rail Pressure Problem
5571	7	High Pressure Common Rail Fuel Pressure Relief Valve :Not Responding Properly	Fuel Rail Pressure Problem
5571	10	High Pressure Common Rail Fuel Pressure Relief Valve : Abnormal Rate of Change	Fuel Rail Pressure Problem
5571	14	High Pressure Common Rail Fuel Pressure Relief Valve : Special Instruction	Fuel Rail Pressure Problem
5571	16	High Pressure Common Rail Fuel Pressure Relief Valve :High - moderate severity (2)	Fuel Rail Pressure Problem
5826	16	Emission Control System Operator Inducement Severity :High - moderate severity (2)	Refer to "Operator Inducement Codes".

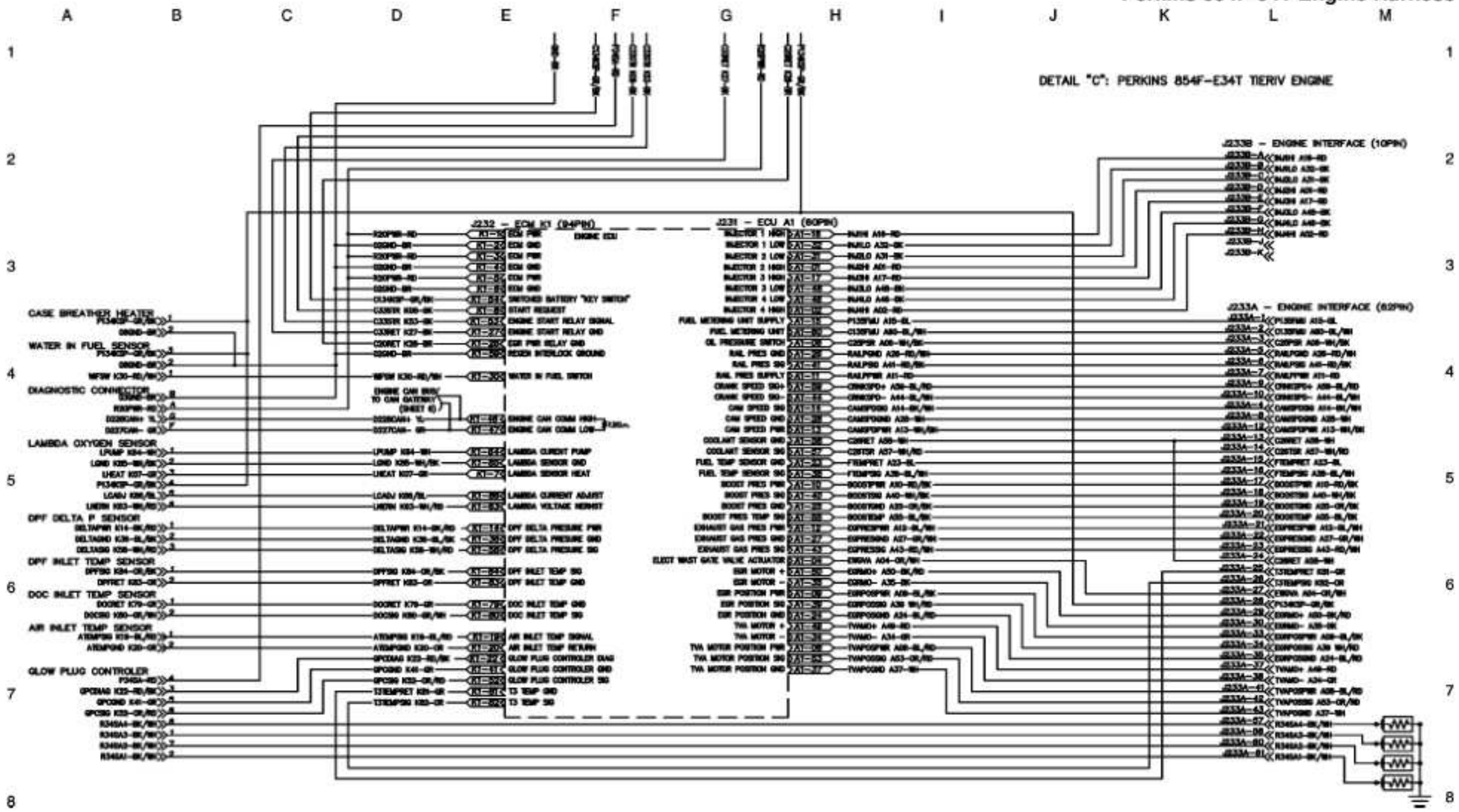
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Deutz TD2011L04i Engine Electrical Schematic



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Perkins 854F-34T Engine Harness



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