

TA Hydraulic SN Prefix HEX

TA1

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Inspection Number	10341551		
Make	CATERPILLAR		
Serial Number	PRG10096		
Model	313F	Equipment Family	EXCAVATORS
		Completed On	13/10/2022 7:02:38 AM
SMU	2677 Hours	Inspector	Mark Argent
PDF Generated On	12/10/2022		
Technician			

General Info & Comments

● General info/Comments

NORMAL



Prepare Machine for Inspection

● 1.1 Check with customer for operator complaints

NORMAL

●	1.2 Perform machine inspection preparation	NORMAL
●	1.3 Download machine fault codes	PASS
●	1.4 Is the machine software including Product Link & VIMS Config files current with what is published in SIS?	YES
●	1.5 Perform Engine Speed Test	GOOD
●	1.6 Check Product Link	YES
●	1.7 Observe engine exhaust colors	NORMAL
●	1.8 Listen for unusual noises	NORMAL
●	1.9 Lockout / Tagout Machine	YES
Lower Level Inspection		
●	2.1 Final drives and sprockets	NORMAL
●	2.2 Travel Motor & Brake Valve	NORMAL
●	2.3 Track Adjuster	NORMAL
●	2.4 Carrier Rollers	NORMAL
●	2.5 Track Rollers	NORMAL
●	2.6 Front Idlers	NORMAL
●	2.7 Track Guides	NORMAL
●	2.8 Track Shoes	NORMAL

●	2.9 Track Links, Pins, & Bushings	NORMAL
●	2.10 Track Roller Frame & Carbody	NORMAL
●	2.11 Engine Oil Pan	NORMAL
Middle Level Inspection		
●	3.1 Cab Exterior	NORMAL
●	3.2 Cab Interior	NORMAL
●	3.3 Steps & Handrails	NORMAL
●	3.4 Work Lights	NORMAL
●	3.5 Check Engine Speed Control	PASS
	3.5.1 High Idle	
	3.5.2 Low Idle	
●	3.6 Air Cleaner and Air Filter Service Indicator	NORMAL
●	3.7 Battery & Cables	NORMAL
●	3.8 Radiator, Air Inlet, Oil Cooler & Aftercooler Lines	NORMAL
●	3.9 Lower Radiator & Oil Cooler Hoses	NORMAL
●	3.10 Counterweight	NORMAL
●	3.11 Hydraulic Pump Compartment	NORMAL
●	3.12 Swing Drive Gear	NORMAL

Upper Level Inspection

●	4.1 Hood and Platform	NORMAL
●	4.2 Exhaust Manifold	NORMAL
●	4.3 Turbocharger	NORMAL
●	4.4 Cylinder Head(s) & Valve Cover(s)	NORMAL
●	4.5 Fuel Lines, Fuel Pump and Fuel Filter Base	NORMAL
●	4.6 Engine Mounts	NORMAL
●	4.7 Pulleys, Belts, Compressor Clutch and Alternator	NORMAL
●	4.8 Cooling Fan, Fan Guard and Shroud	NORMAL
●	4.9 Upper and Lower Radiator Lines, Air Inlet Lines and Aftercooler Lines	NORMAL
●	4.10 Radiator/Oil Cooler Screen	NORMAL
●	4.11 Water Pump(s)	NORMAL
●	4.12 Radiator Cap	NORMAL
●	4.13 Fuel Priming Pump	NORMAL
●	4.14 Secondary Fuel Filter	NORMAL
●	4.15 Fuel Injection Pump	NORMAL
●	4.16 Engine wiring harness	NORMAL

●	4.17 Hydraulic Hoses	GOOD
●	4.18 Swing Drive Compartment	NORMAL
●	4.19 Swing Drive	NORMAL
●	4.20 Main Hydraulic Control Valve	NORMAL
●	4.21 Hydraulic Tank	NORMAL
●	4.22 Fuel Tank	NORMAL
Implement/Attachment Inspection		
●	5.1 Swivel	NORMAL
●	5.2 Lower Boom Area	NORMAL
	5.2.1 Hose Condition	
●	5.3 Area around Boom Cylinders	NORMAL
●	5.4 Boom Cylinder	NORMAL
●	5.5 Area where Boom attaches to Stick	NORMAL
	5.5.1 Hose Condition	
●	5.6 Stick Cylinder	NORMAL
●	5.7 Bucket Cylinder	NORMAL
●	5.8 Bucket linkage	NORMAL
●	5.9 Bucket wear plates	N/A

● 5.10 Bucket side cutters N/A

● 5.11 Bucket edges, tips, and adapters N/A

Cylinder Drift - Check (Empty Bucket)

● 6.1 Boom Cylinder PASS

6.1.1 Observed

6.1.2 Specification See Attached Help Document

● 6.2 Stick Cylinder PASS

6.2.1 Observed

6.2.2 Specification See Attached Help Document

● 6.3 Bucket Cylinder - Check PASS

6.3.1 Observed

6.3.2 Specification See Attached Help Document

Check Cylinder Cycle Times

● 7.1 Boom Cylinder PASS

7.1.1 Extension Spec See Attached Help Document

7.1.2 Extension Observed

7.1.3 Retraction Spec See Attached Help Document

7.1.4 Retraction Observed

● 7.2 Stick Cylinder PASS

7.2.1 Extension Spec See Attached Help Document

7.2.2 Extension Observed

7.2.3 Retraction Spec See Attached Help Document

7.2.4 Retraction Observed

● 7.3 Bucket Cylinder (NOTE BUCKET FAMILY) PASS

7.3.1 Extension Spec See Attached Help Document

7.3.2 Extension Observed

7.3.3 Retraction Spec See Attached Help Document

7.3.4 Retraction Observed

Check Travel Cycle Times

● 8.1 Travel Speed in HIGH (Time for three revolutions in seconds) *PASS*

8.1.1 Forward See Attached Help Document

8.1.2 Reverse See Attached Help Document

● 8.2 Travel Speed in LOW (Time for three revolutions in seconds) *PASS*

8.2.1 Forward See Attached Help Document

8.2.2 Reverse See Attached Help Document

Pilot System

● 9.1 Pilot Relief Valve - Test *PASS*

9.1.1 Observed

9.1.2 Specification See Attached Help Document

Main Control Valve - Test

● 10.1 Pump 1 Main Relief - Test *PASS*

10.1.1 Observed

10.1.2 Specification See Attached Help Document

Hydraulic Scheduled Oil Sample

● 11.1 SOS Taken *NO (NO REQUIRED COMMENTS)*

Site Conditions

● 12.1 Ambient Temperature in Engine Room *NORMAL*

12.1.1 (90° to 115°F or 0° to -20°F) - ACTION: Above 46°C or Below -29°C
(Above 115° or Below -20°F)

● 12.2 Altitude *NORMAL*

● 12.3 Haul Road Grade *N/A*

●	12.4 Haul Road Condition	N/A
●	12.5 Humidity	NORMAL
●	12.6 Air Quality	NORMAL
●	12.7 Underfoot Condition	NORMAL
●	12.8 Machine Utilization	NORMAL
●	12.9 Working Material	NORMAL
●	12.10 Maintenance Practices	NORMAL
Lower Level Inspection		
●	13.1 Undercarriage	NORMAL