



Mustang Cat Marine Svc, LLC.
 7001 Easthaven Blvd
 Houston, TX 77017
 (713) 452-5250
 mustangcat.com

Service Report

Page 1 of 1

Customer Name: Harris Companies	Marine Job #: ME02382
Contact Person: Ray Lorenzo	Technician: DRAKE CHARLES
Contact Ph: (757) 342 3960	Engine Hours:
Work Location: MANCHESTER TERMINAL	
<u>Service Call Details</u> 7 ENGINES WITH AN INSPECTION ON 3 OF THEM	
Model: C280	Problem Type: INSPECTIONS
Equipment: Generator	Call Type:
Equip/Vessel:	Serial No.: o Port o Starboard NKB00180

Subject: _____

Service Details

REMOVED THE VALVE COVERS AND LOOKED AT ALL THE ROCKER ARMS,PUSH RODS AND EVERYTHING ELSE. NEXT WE SCOPED CYLINDERS 15,13,11 AND 7. WE PULLED THE ROCKER ARMS AND THEN PULLED THE INJECTORS OUT THEN SCOPED THE CYLINDERS. ALL THE LINERS STILL HAD THEIR CROSS HATCHING WITH NO SIGNS OF WASH OUT OR ANY OTHER DAMAGE. SAME GOES FOR THE PISTONS. OVERALL HEALTH OF THIS ENGINE IS GREAT. ENGINE DOES NOT SEEM TO HAVE ANY LEAKS AND IT ROLLED OVER JUST FINE.

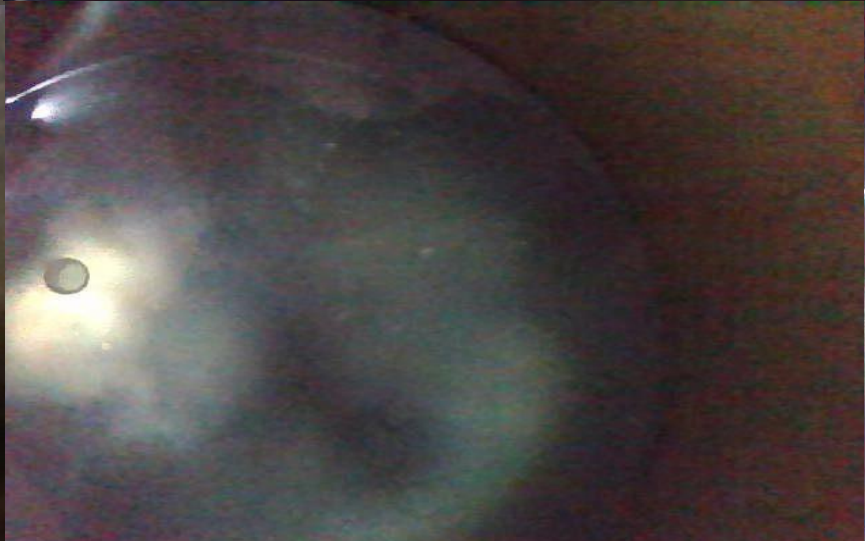
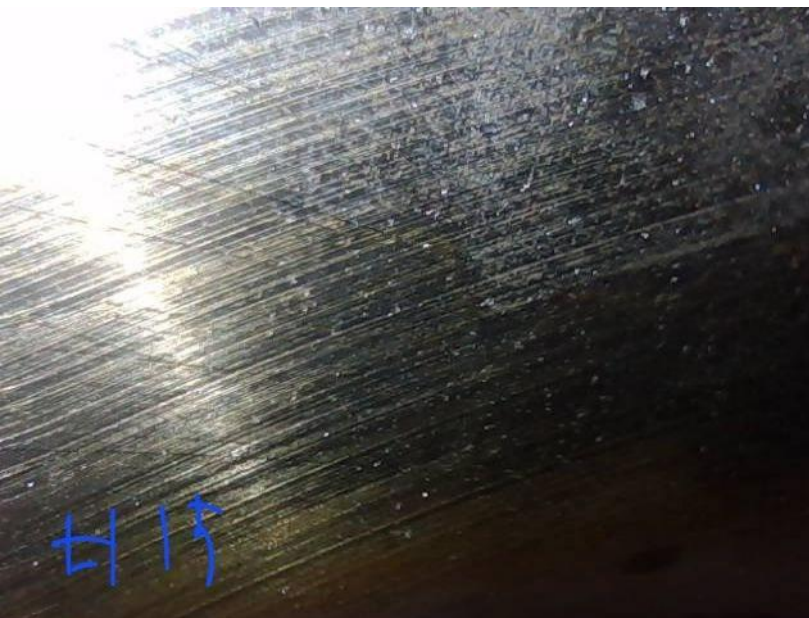
Below you can find pictures showing the cylinder liners, valves, and piston heads, all showing to be in great condition. The crosshatching in the cylinder liners is in good condition, all valves look to be seated properly, and there are no markings or debris sitting on top of the pistons.

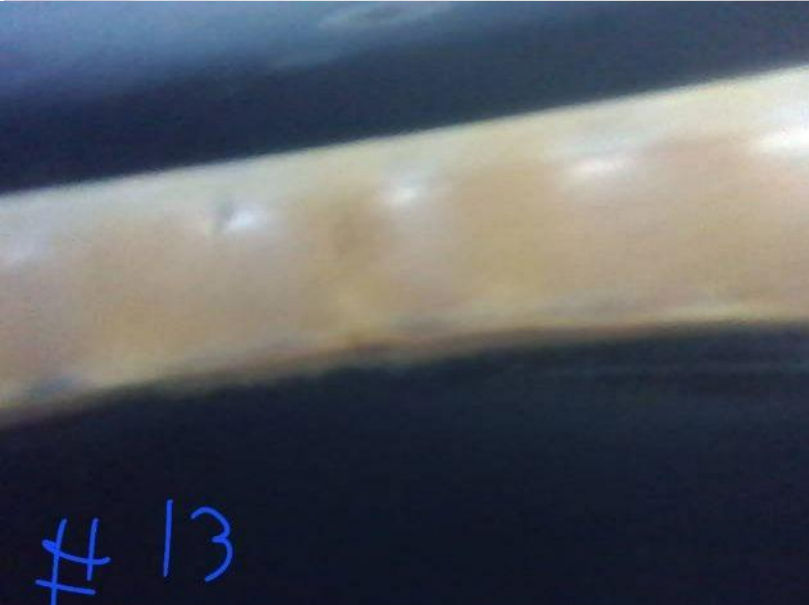
 Authorized Customer Representative (Print)

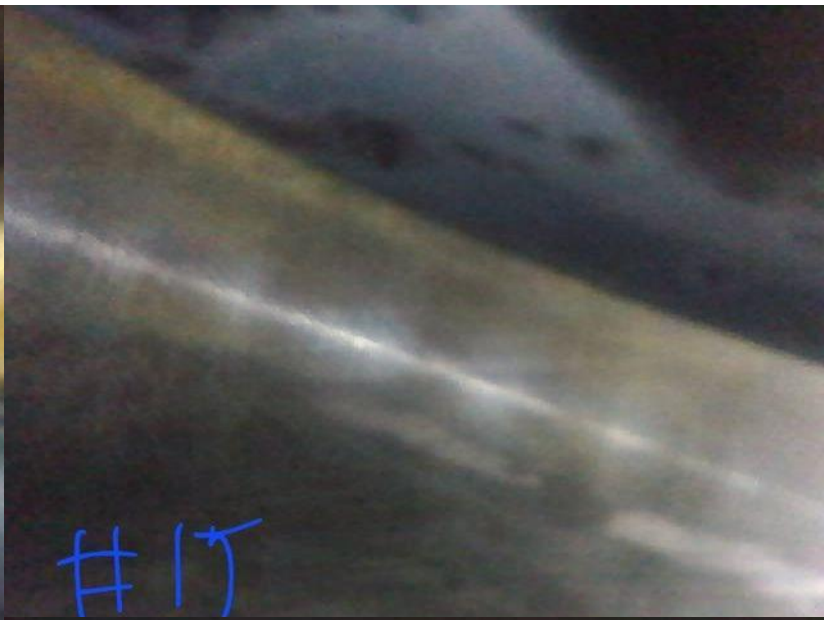
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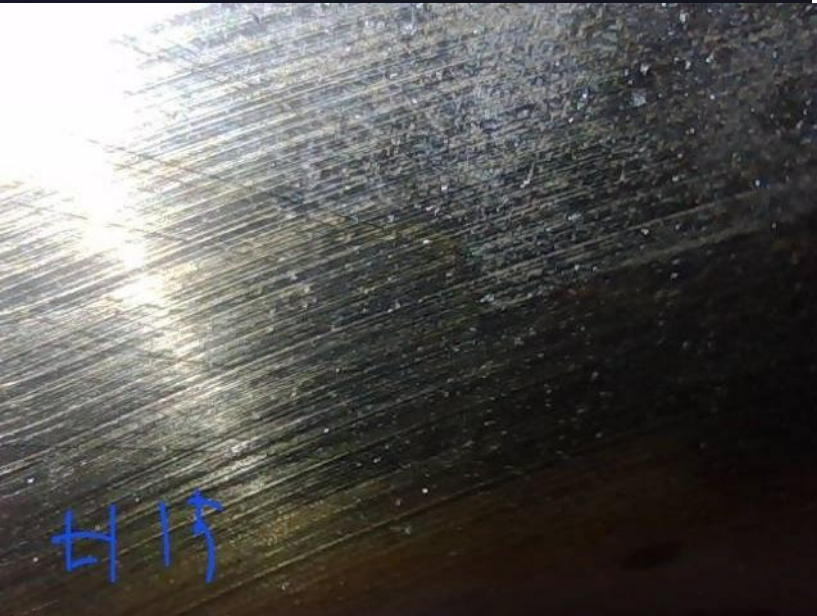
6/26/2023 Drake Charles

 Date Technician











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Model: C280	Problem Type: INSPECTIONS
Equipment: Generator	Call Type:
Equip/Vessel:	Serial No.: o Port o Starboard NKB00177

Subject: _____

Service Details

REMOVED THE VALVE COVERS AND LOOKED AT ALL THE VALVE TRAIN. NEXT WE SCOPED CYLINDERS 2,4,6 AND 8. WE PULLED THE ROCKER ARMS AND THEN PULLED THE INJECTORS OUT THEN SCOPED THE CYLINDERS. ALL THE LINERS STILL HAD THEIR CROSS HATCHING WITH NO SIGNS OF WASH OUT OR ANY OTHER DAMAGE. SAME GOES FOR THE PISTONS. OVERALL HEALTH OF THIS ENGINE IS GREAT. ENGINE DOES NOT SEEM TO HAVE ANY LEAKS AND IT ROLLED OVER JUST FINE. CYLINDERS 2,4 AND 6 HAVE A LITTLE BIT OF SURFACE RUST ON THE BOTTOM OF THE HEAD AND ALSO ON THE LINERS THEM SELVES, BUT NOTHING TO BE ALARMED ABOUT. THATS NORMAL FOR HOW LONG THESE ENGINE'S HAVE BEEN SITTING.

Below you can find pictures of the cylinder liners, valves, and piston heads, all showing to be in good condition. The crosshatching in the cylinder liners is in good condition, all valves look to be seated properly, and there are no markings or debris sitting on top of the pistons. There is some slight surface rust that is to be expected with an engine that has not been running. This will clear up without impacting the function or lifespan of the engine.

 Authorized Customer Representative (Print)

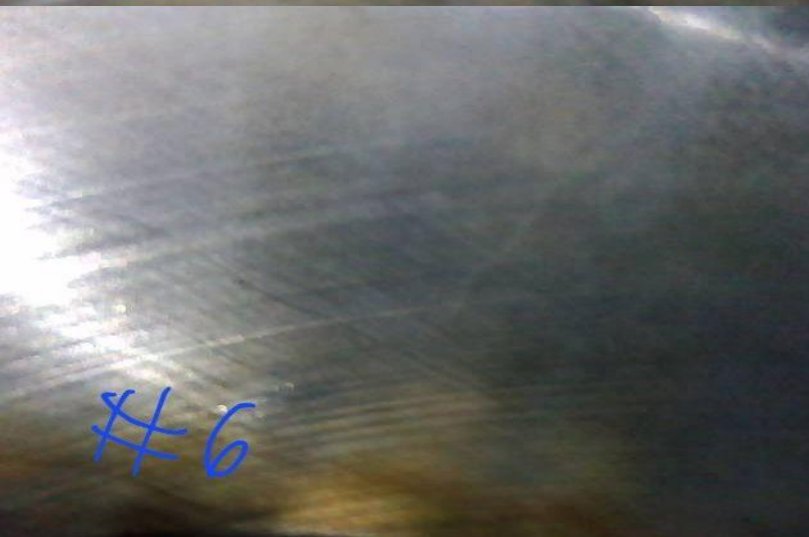
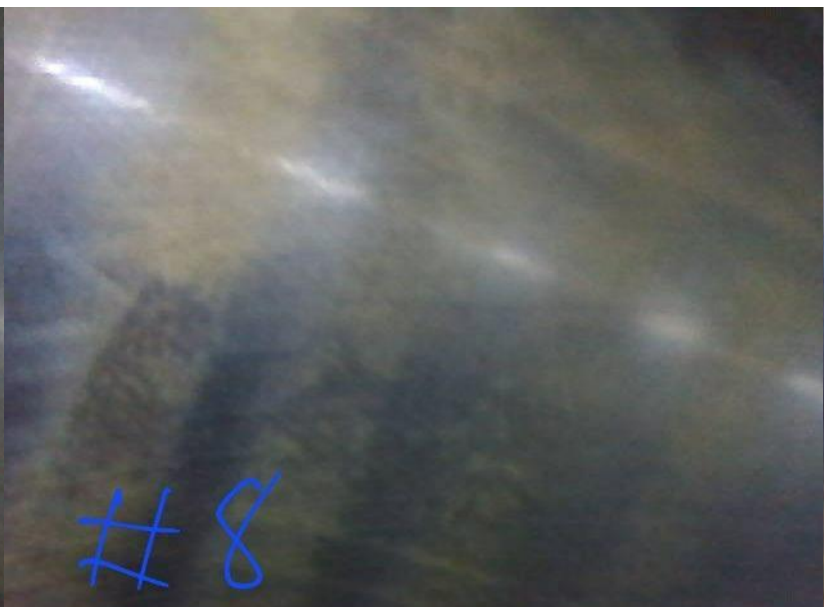
6/26/2023

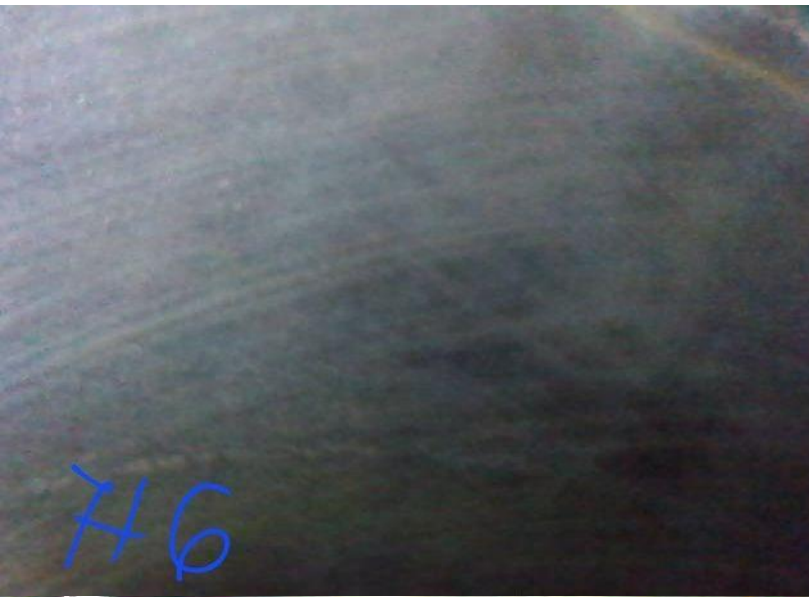
Date

Drake Charles

Technician

 Authorized Customer Representative (Signature)









Cylinder # 2



Cylinder # 2



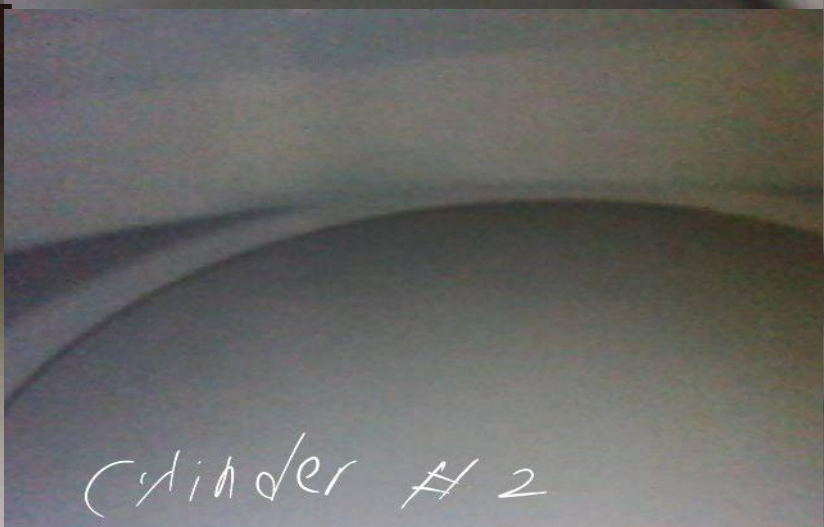
Cylinder # 2



Cylinder # 2



Cylinder # 2



Cylinder # 2



Cylinder #12



Cylinder #2



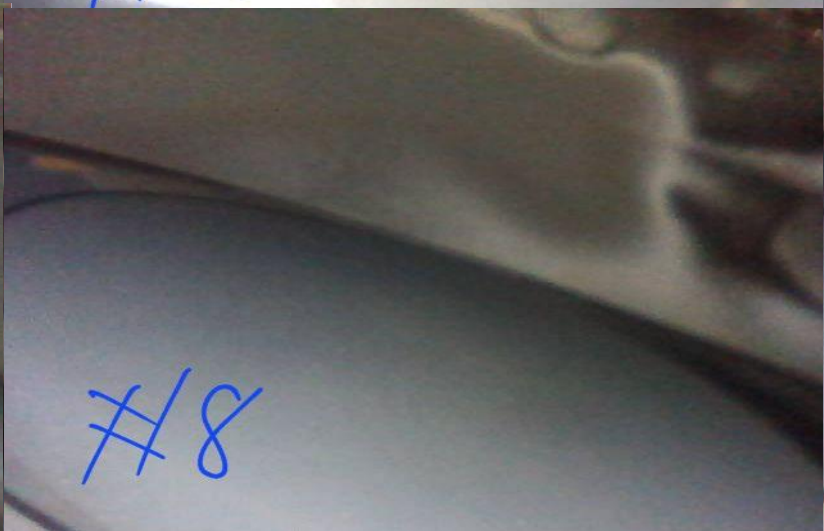
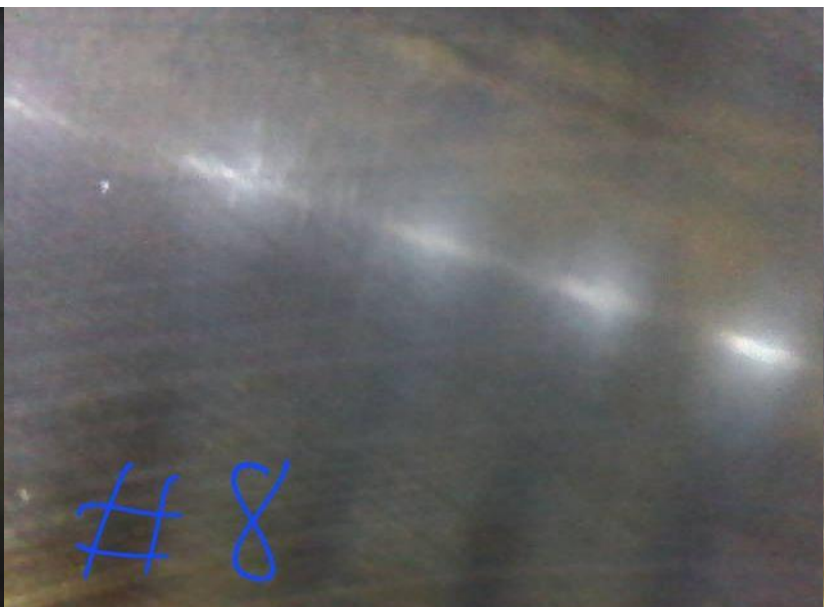
Cylinder #12



Cylinder #12



Engine #2 Cylinder #12





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Model: C280	Problem Type: INSPECTIONS
Equipment: Generator	Call Type:
Equip/Vessel:	Serial No.: o Port o Starboard NKB00174

Subject: _____

Service Details

REMOVED THE VALVE COVERS AND LOOKED AT ALL THE VALVE TRAIN. NEXT WE SCOPED CYLINDERS 15,13,11 AND 9. WE PULLED THE ROCKER ARMS AND THEN PULLED THE INJECTORS OUT THEN SCOPED THE CYLINDERS. ALL THE LINERS STILL HAD THEIR CROSS HATCHING WITH NO SIGNS OF WASH OUT OR ANY OTHER DAMAGE. SAME GOES FOR THE PISTONS. OVERALL HEALTH OF THIS ENGINE IS GREAT. THESE CYLINDERS WERE THE BEST OUT OF THE BUNCH. NOT ONE SINGLE PROBLEM FROM THIS UNIT. AFTER PUTTING EVERYTHING BACK TOGETHER WE ROLLED THE ENGINE OVER WITHOUT ANY PROBLEM.

The pictures below were taken with a bore scope and show the condition of the top of the pistons, cylinder liners, and valves. All look to be in great condition with minimal surface rust. This engine was well preserved and looks to have a lot of life left in it.

 Authorized Customer Representative (Print)

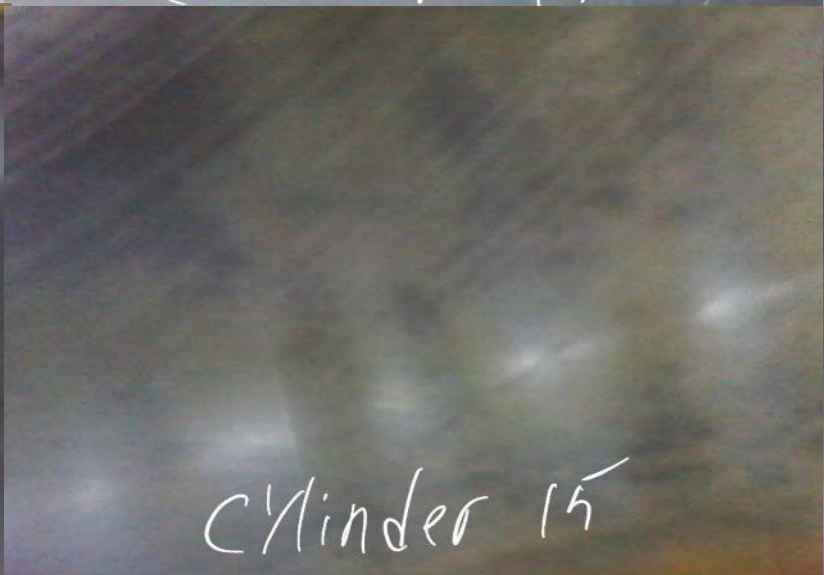
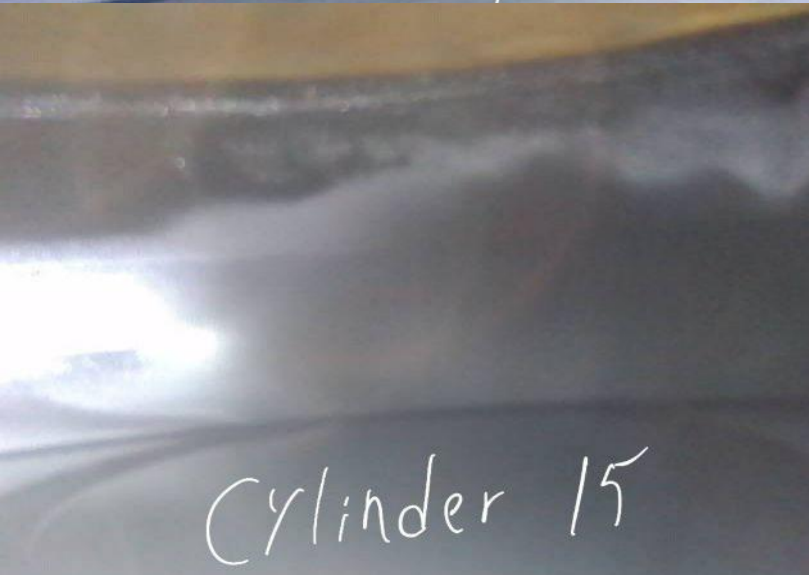
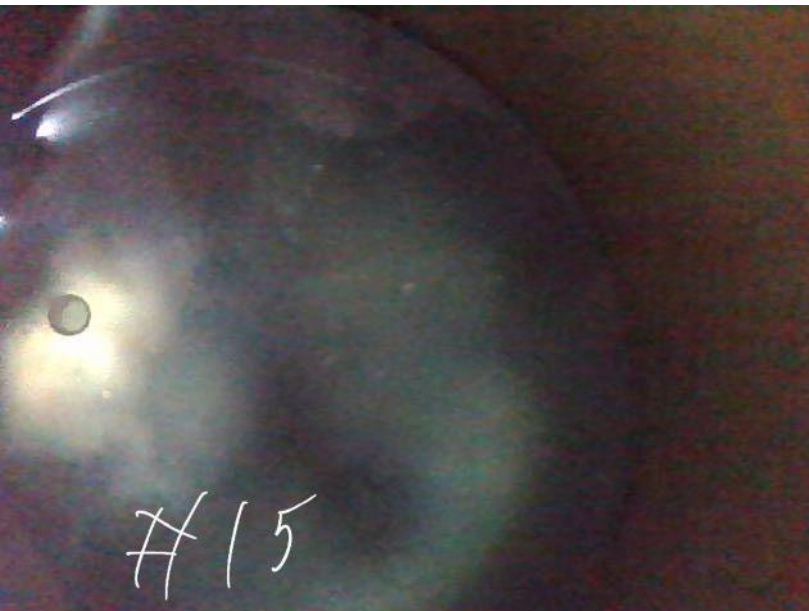
6/26/2023

Date

Drake Charles

Technician

 Authorized Customer Representative (Signature)





Cylinder 15



Cylinder 15



#13



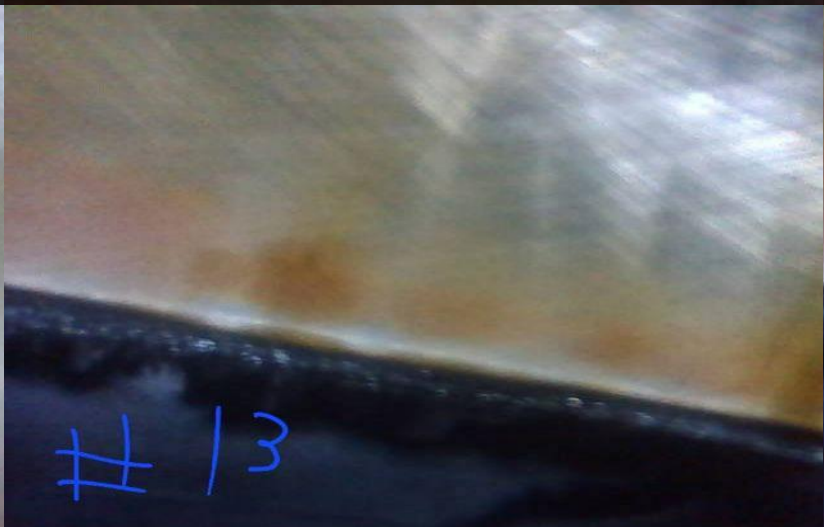
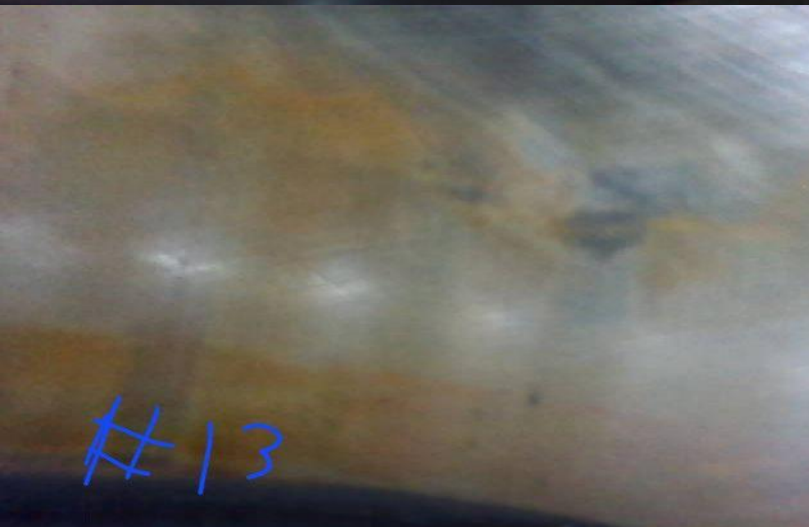
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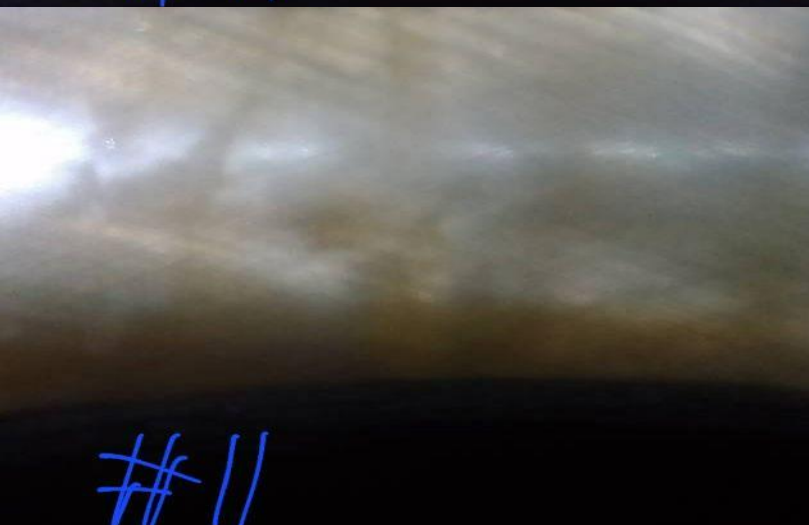
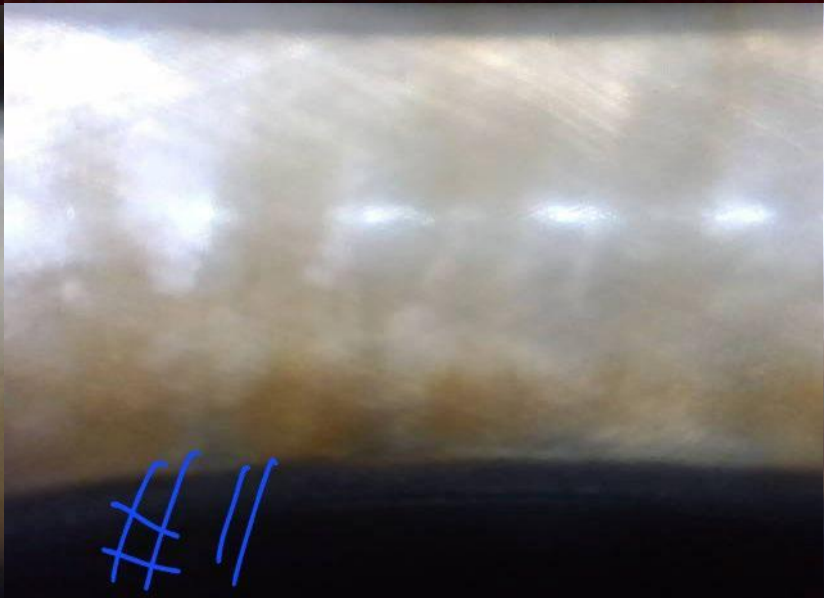


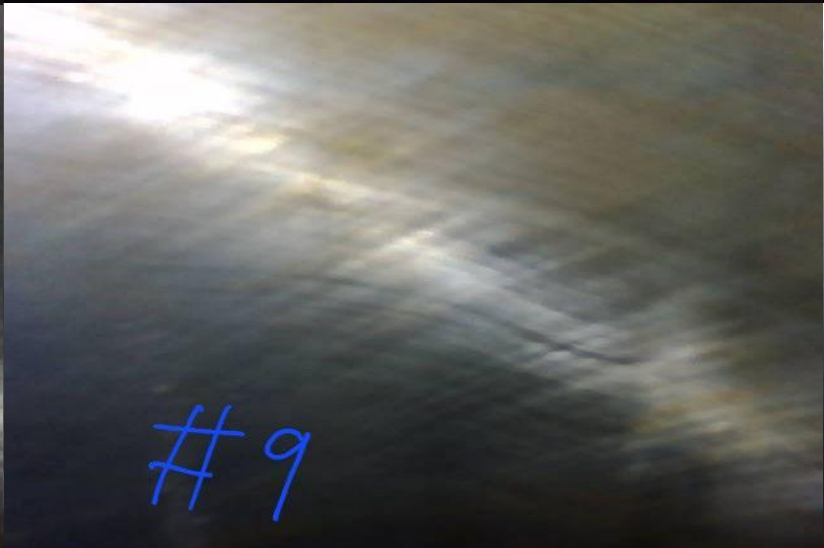
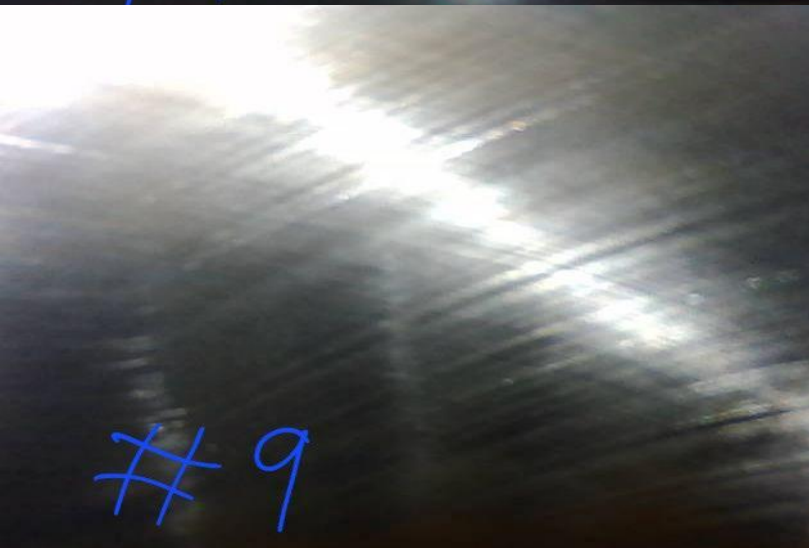
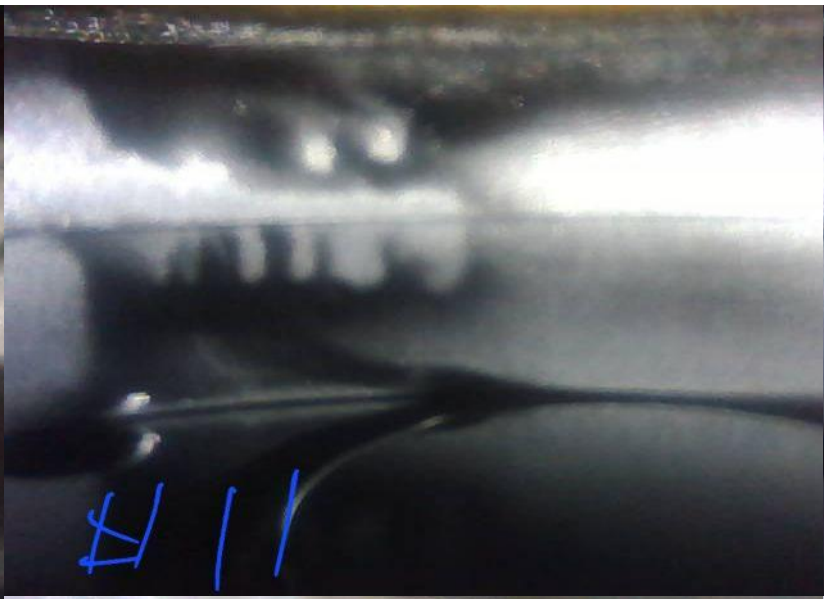
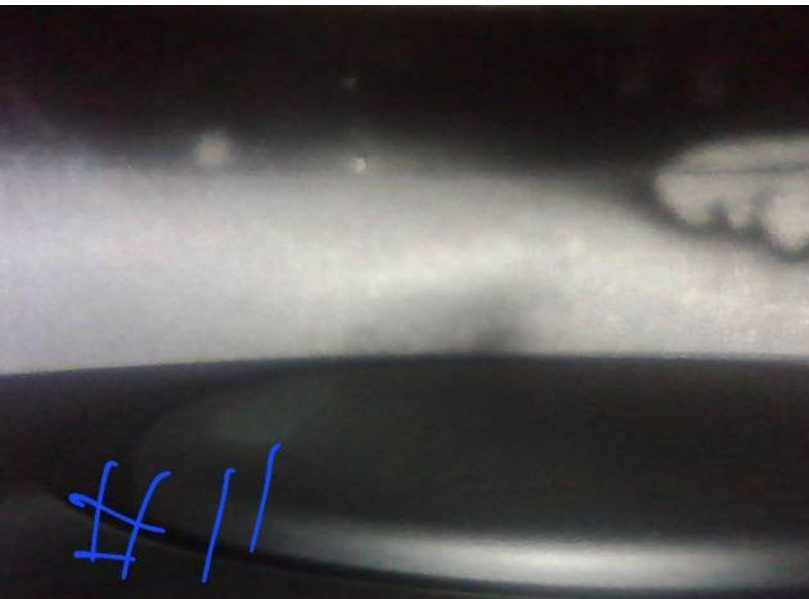
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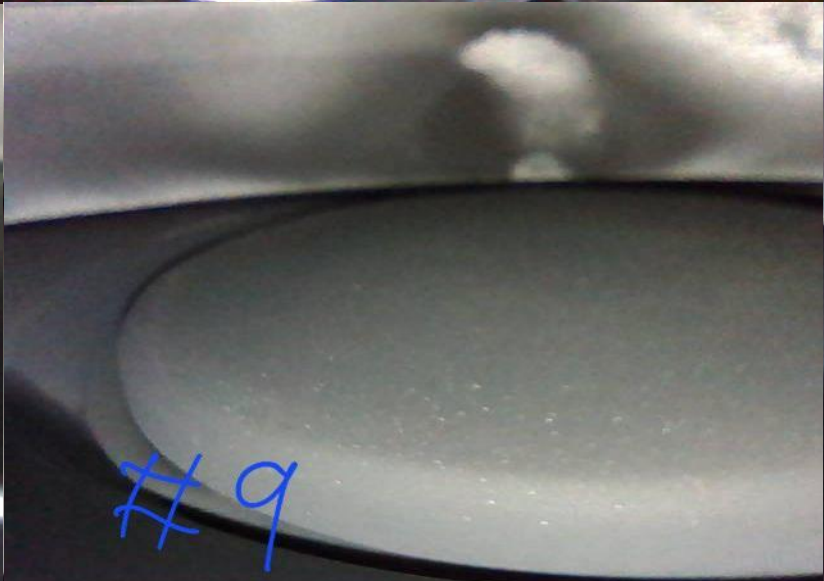
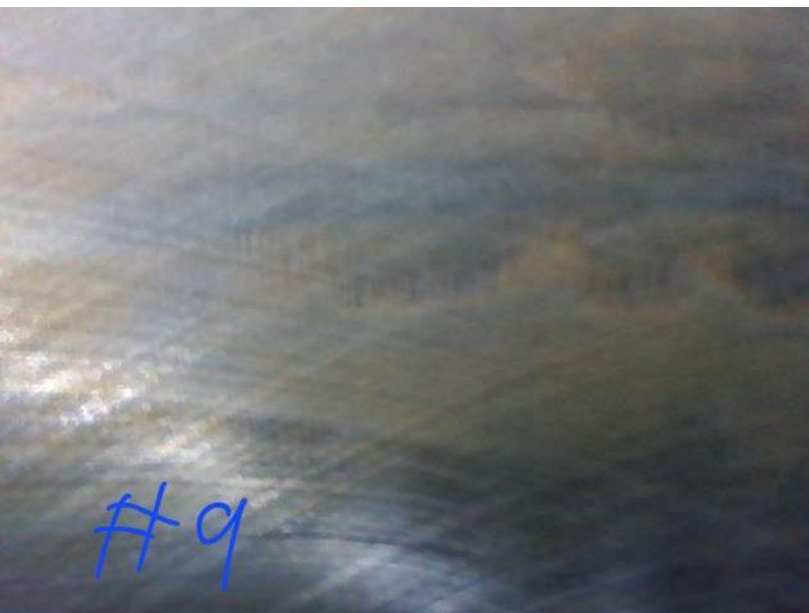


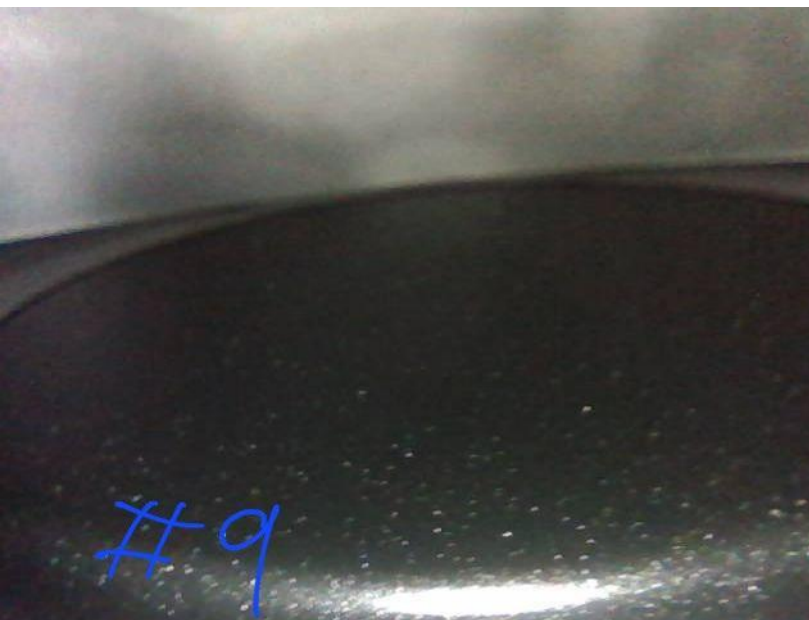
#13













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Work Location: MANCHESTER TERMINAL	
<u>Service Call Details</u> 7 ENGINES WITH AN INSPECTION ON 3 OF THEM	
Model: C280	Problem Type: INSPECTIONS
Equipment: Generator	Call Type:
Equip/Vessel:	Serial No.: <small>o Port</small> <small>o Starboard</small> NKB00176

Subject: _____

Service Details

ROLLED THE ENGINE OVER AFTER CUTTING THE WRAPS OFF THE ENGINE. I ALSO DID A WALK AROUND AND CHECKED FOR ANY SIGNS OF LEAKS OR DAMAGE. NO SIGNS OF LEAKS WHILE DOING MY INSPECTIONS.EVERYTHING LOOKED TO BE IN GOOD CONDITION.

 Authorized Customer Representative (Print)

6/26/2023

Drake Charles

Date

Technician

 Authorized Customer Representative (Signature)







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Model: C280	Problem Type: INSPECTIONS
Equipment: Generator	Call Type:
Equip/Vessel:	Serial No.: o Port o Starboard NKB00175

Subject: _____

Service Details

ROLLED THE ENGINE OVER AFTER CUTTING THE WRAPS OFF THE ENGINE. I ALSO DID A WALK AROUND AND CHECKED FOR ANY SIGNS OF LEAKS OR DAMAGE. NO SIGNS OF LEAKS WHILE DOING MY INSPECTIONS. EVERYTHING LOOKED TO BE IN GOOD CONDITION.

 Authorized Customer Representative (Print)

6/26/2023

Date

Drake Charles

Technician

 Authorized Customer Representative (Signature)

CAT
 SER. NO. NKB00175 ENGINE MODEL C280
 AR NO. 2972552 ROTATION CC
 PERF SPEC 0K8444 MAX ALT 150
 EM NO.
 FULL LOAD FUELING 3205 mm3 FLS (INTERCEPT) 0
 FUEL TIMING 118.2 mm FTS (SLOPE) 0
 POWER 5420 kW AT 1000 RPM ECM SOFTWARE 319609:
 BARE ENGINE HI IDLE 1010 RPM INJECTOR 2882403
 TURBO 2848277
 USE SERVICE TOOL TO VERIFY CURRENT ENGINE SETTINGS 115-5852

SYNCHRONOUS AC GENERATOR

SERIAL NUMBER	CODE	MODEL NUMBER	WEIGHT
115-5852	115-4700	115-41000	15300
IMPORTANT: WHEN ORDERING PARTS INCLUDE SERIAL NUMBER AND MODEL NUMBER			
ALTERNATOR			EXCITER
KW	PHASE	WIRE	HERTZ
5420	3	6	180
KVA	P.F.	RPM	
3770	0.87	1000	
VOLTAGE	AMPERES		
2770	390		
TEMP. RISE	AMBIENT	INSUL. CL.	SEQUENCE
	°C		
ENCLOSURE	MFR. YEAR	ROTATION	
	2010		

PERCENT OVERLOAD FOR 1 HOUR IN A 1 HOUR PERIOD

ASSEMBLED IN THE U.S.A. **Kato Engineering**

157-00103-4





engine # 7



engine # 7



engine # 7



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Work Location: MANCHESTER TERMINAL	
<u>Service Call Details</u> 7 ENGINES WITH AN INSPECTION ON 3 OF THEM	
Model: C280	Problem Type: INSPECTIONS
Equipment: Generator	Call Type:
Equip/Vessel:	Serial No.: o Port o Starboard NKB00178

Subject: _____

Service Details

ROLLED THE ENGINE OVER AFTER CUTTING THE WRAPS OFF THE ENGINE. I ALSO DID A WALK AROUND AND CHECKED FOR ANY SIGNS OF LEAKS OR DAMAGE. NO SIGNS OF LEAKS WHILE DOING MY INSPECTIONS. EVERYTHING LOOKED TO BE IN GREAT CONDITION.

 Authorized Customer Representative (Print)

6/26/2023 Drake Charles
 Date Technician

 Authorized Customer Representative (Signature)



engine # 5







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Contact Ph: (757) 342-3960	Engine Hours:
Work Location: MANCHESTER TERMINAL	
<u>Service Call Details</u> 7 ENGINES WITH AN INSPECTION ON 3 OF THEM	
Model: C280	Problem Type: INSPECTIONS
Equipment: Generator	Call Type:
Equip/Vessel:	Serial No.: o Port o Starboard NKB00179

Subject: _____

Service Details

ROLLED THE ENGINE OVER AFTER CUTTING THE WRAPS OFF THE ENGINE. I ALSO DID A WALK AROUND AND CHECKED FOR ANY SIGNS OF LEAKS OR DAMAGE. NO SIGNS OF THE LEAKS WHILE DOING MY INSPECTIONS. EVERYTHING LOOKED TO BE IN VERY GOOD CONDITION.

 Authorized Customer Representative (Print)

6/26/2023 Drake Charles

 Date Technician

 Authorized Customer Representative (Signature)