Scavenge Inspection Report

This document has been created through an automated process utilizing advanced computer vision and artificial intelligence technology. The images provided by the crew were carefully analyzed using a state-of-the-art AI model that has been specifically trained to identify various types of faults such as Carbon deposits, Excessive oil, Black Oil, Scratches, Collapsed , Micro -Seizure in Piston Ring, Oil Leakage in Crown and Cloverleafing in Liner area.

Vessel Info

Vessel: Alpha **IMO No:** string **Local End Date:** 2024-11-22 18:23:54

General Data			
Total Running Hour:	string	Position:	string
Cylinder Oil type:	string	ME Cylinder Oil consumption:	string
Normal service load in % of MCR:	string	Inspected by (Rank):	string
Scrubber:	string	Fuel Sulphur %:	string
ME Running Hour Since Last Check:	string		

Possible Recommendation - Crown & Liner						
Cylinder No.	**Too much Oil**	**Black Oil**	**Carbon**	**Scratch**	**Collapsed**	**Micro - Seizure**
1	*	*	1) Replace or Overhaul fuel injector to avoid improper combustion 2) Adjust fuel temperature/viscosity to attain correct viscosity as per Maker's recommendation 3) Check the condition of piston rings free movement (Gas sealing) 4) Adjust the Cylinder Oil Feed rate to avoid over lubrication to avoid formation of carbon deposits	*	*	1) Increase the Feed rate 2) Check correct cylinder oil feed rate. 3) Optimize the scavange air temperature to avoid moisture carry over to cylinder space.

2	1) Adjust the Cylinder Oil Feed rate 2) Carry out Drain oil analysis (On board or send ashore) 3) Adjust feed rate to obtain optimum residual BN	1) Check Fuel injectors for leakage 2) Check for carbon deposits	*	*	*	*
3	1) Adjust the Cylinder Oil Feed rate 2) Carry out Drain oil analysis (On board or send ashore) 3) Adjust feed rate to obtain optimum residual BN	*	*	*	*	*
4	1) Adjust the Cylinder Oil Feed rate 2) Carry out Drain oil analysis (On board or send ashore) 3) Adjust feed rate to obtain optimum residual BN	1) Check Fuel injectors for leakage 2) Check for carbon deposits	*	*	*	*

5	DUPLICATE of cylinder1_Before_cleaning	DUPLICATE of cylinder1_Before_cleaning	DUPLICATE of cylinder1_Before_cleaning	DUPLICATE of cylinder1_Before_cleaning	DUPLICATE of cylinder1_Before_cleaning	*
6	*	*	1) Replace or Overhaul fuel injector to avoid improper combustion 2) Adjust fuel temperature/viscosity to attain correct viscosity as per Maker's recommendation 3) Check the condition of piston rings free movement (Gas sealing) 4) Adjust the Cylinder Oil Feed rate to avoid over lubrication to avoid formation of carbon deposits	*	*	Erroneous Image
7	*	*	1) Replace or Overhaul fuel injector to avoid improper combustion 2) Adjust fuel temperature/viscosity to attain correct viscosity as per Maker's recommendation 3) Check the condition of piston rings free movement (Gas sealing) 4) Adjust the Cylinder Oil Feed rate to avoid over lubrication to avoid formation of carbon deposits	*	*	Erroneous Image

8	1) Adjust the Cylinder Oil Feed rate 2) Carry out Drain oil analysis (On board or send ashore) 3) Adjust feed rate to obtain optimum residual BN	*	1) Replace or Overhaul fuel injector to avoid improper combustion 2) Adjust fuel temperature/viscosity to attain correct viscosity as per Maker's recommendation 3) Check the condition of piston rings free movement (Gas sealing) 4) Adjust the Cylinder Oil Feed rate to avoid over lubrication to avoid formation of carbon deposits	*	*	Erroneous Image
9	*	*	1) Replace or Overhaul fuel injector to avoid improper combustion 2) Adjust fuel temperature/viscosity to attain correct viscosity as per Maker's recommendation 3) Check the condition of piston rings free movement (Gas sealing) 4) Adjust the Cylinder Oil Feed rate to avoid over lubrication to avoid formation of carbon deposits	*	*	*
10	*	*	1) Replace or Overhaul fuel injector to avoid improper combustion 2) Adjust fuel temperature/viscosity to attain correct viscosity as per Maker's recommendation 3) Check the condition of piston rings free movement (Gas sealing) 4) Adjust the Cylinder Oil Feed rate to avoid over lubrication to avoid formation of carbon deposits	*	*	DUPLICATE of cylinder9_Before_cleaning

11	*	*	*	*	*	*
12	Erroneous Image	Erroneous Image	Erroneous Image	Erroneous Image	Erroneous Image	*
13	*	1) Check Fuel injectors for leakage 2) Check for carbon deposits	1) Replace or Overhaul fuel injector to avoid improper combustion 2) Adjust fuel temperature/viscosity to attain correct viscosity as per Maker's recommendation 3) Check the condition of piston rings free movement (Gas sealing) 4) Adjust the Cylinder Oil Feed rate to avoid over lubrication to avoid formation of carbon deposits	*	*	*

14	DUPLICATE of cylinder11_After_cleaning	DUPLICATE of cylinder11_After_cleaning	DUPLICATE of cylinder11_After_cleaning	DUPLICATE of cylinder11_After_cleaning	DUPLICATE of cylinder11_After_cleaning	*
15	*	*	1) Replace or Overhaul fuel injector to avoid improper combustion 2) Adjust fuel temperature/viscosity to attain correct viscosity as per Maker's recommendation 3) Check the condition of piston rings free movement (Gas sealing) 4) Adjust the Cylinder Oil Feed rate to avoid over lubrication to avoid formation of carbon deposits	*	1) Replace Piston Rings 2) Check for Carbon deposits in the ring groove 3) Check vertical ring clearance 4) Check for Partial sticking 5) Check for Poor sealing between the ring and the ring groove floor. 6) Check for Clover-leafing 7) Check for Ring end chamfers. 8) Check for too large ring-edge radii. 9) Check for Continual striking against wear ridges, or other irregularities in the cylinder wall.	DUPLICATE of cylinder11_Before_cleaning

Possible Recommendation - Crown & Liner		
Cylinder No.	**Crown**	**Liner**
1	1) Check if the leakage is fuel oil, lube oil or water 2) If fuel oil: check for leakage from fuel valve 3) If Lube oil: check for leakage from the exhaust valve. 4) If water: check for leakage from Cylinder head, Exhaust valve, Injector pockets, crack in Liner.	1) Check for even supply of Cylinder oil from all the quills 2) Check correct cylinder oil feed rate 3) Check for moisture content leading to oil film breakage
2	1) Check if the leakage is fuel oil, lube oil or water 2) If fuel oil: check for leakage from fuel valve 3) If Lube oil: check for leakage from the exhaust valve. 4) If water: check for leakage from Cylinder head, Exhaust valve, Injector pockets, crack in Liner.	1) Check for even supply of Cylinder oil from all the quills 2) Check correct cylinder oil feed rate 3) Check for moisture content leading to oil film breakage

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13	Erroneous Image	1) Check for even supply of Cylinder oil from all the quills 2) Check correct cylinder oil feed rate 3) Check for moisture content leading to oil film breakage
14	Erroneous Image	*

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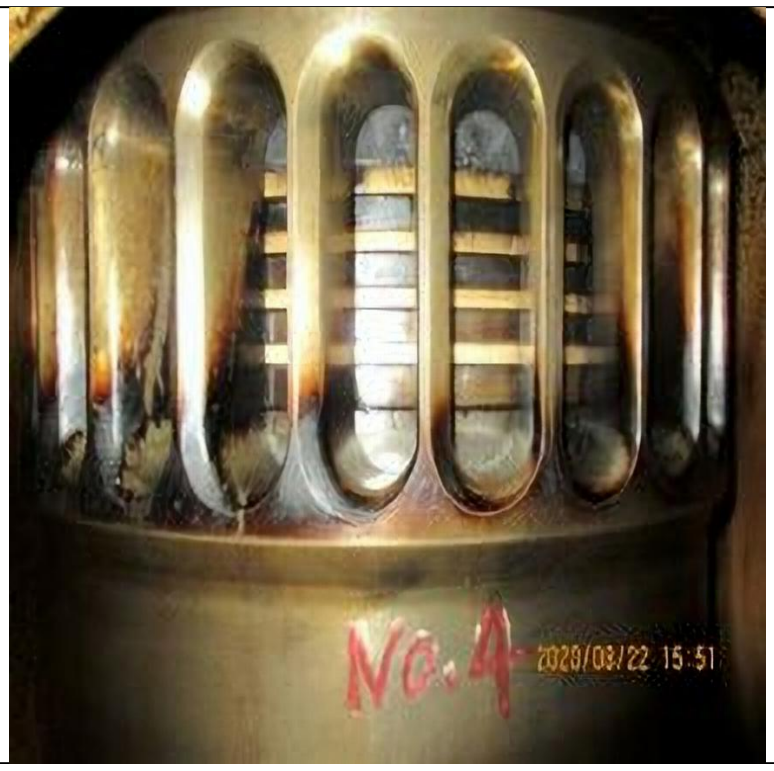
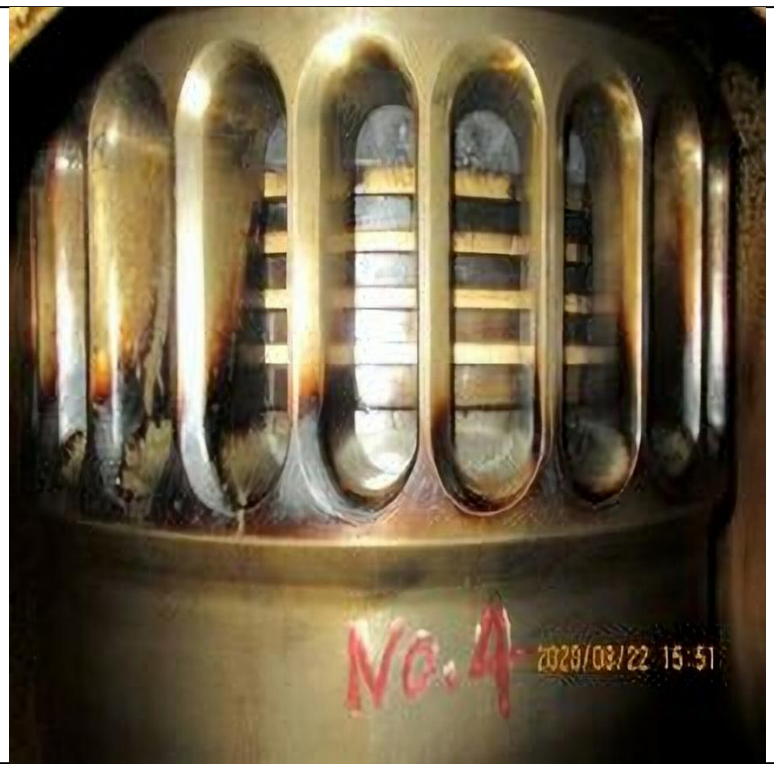
Cylinder No: 1 - Before Cleaning - Piston Rings	Cylinder No: 1 - After Cleaning - Piston Rings
	
Cylinder No: 1 - Crown - Crown	Cylinder No: 1 - Liner - Liner
	
Cylinder No: 2 - Before Cleaning - Piston Rings	Cylinder No: 2 - After Cleaning - Piston Rings
	

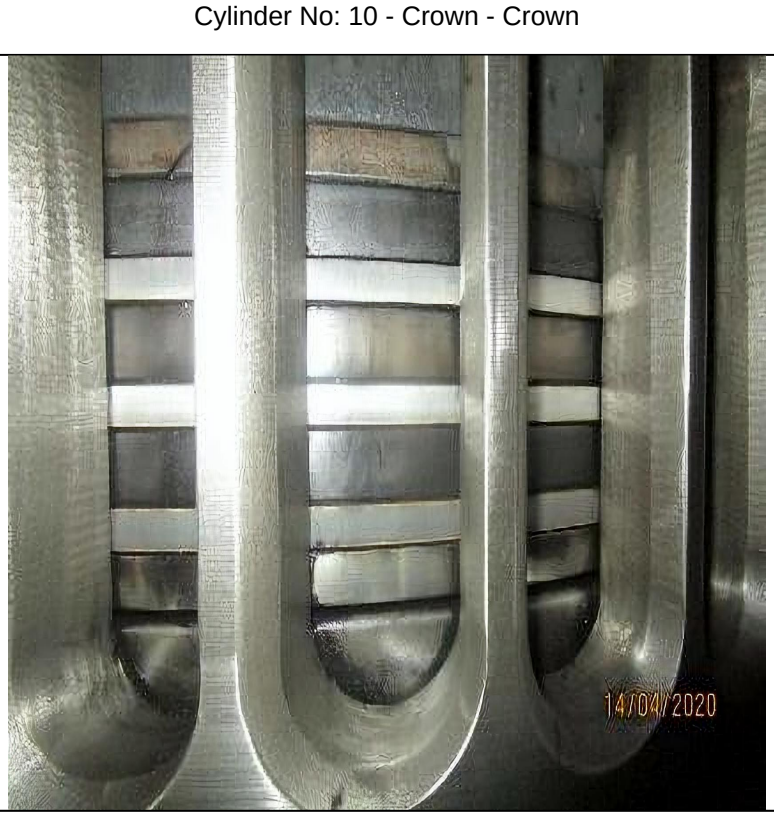
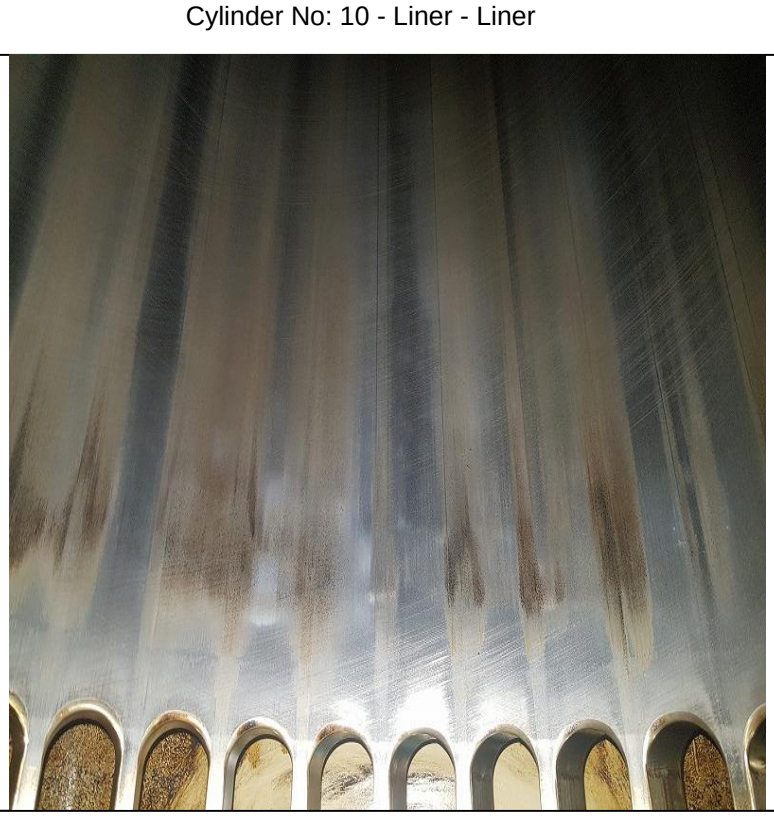
Cylinder No: 2 - Crown - Crown	Cylinder No: 2 - Liner - Liner
	
Cylinder No: 3 - Before Cleaning - Piston Rings	Cylinder No: 3 - After Cleaning - Piston Rings
	
Cylinder No: 3 - Crown - Crown	Cylinder No: 3 - Liner - Liner
	

Cylinder No: 4 - Before Cleaning - Piston Rings	Cylinder No: 4 - After Cleaning - Piston Rings
	
Cylinder No: 4 - Crown - Crown	Cylinder No: 4 - Liner - Liner
	
Cylinder No: 5 - Before Cleaning - Piston Rings	Cylinder No: 5 - After Cleaning - Piston Rings
	

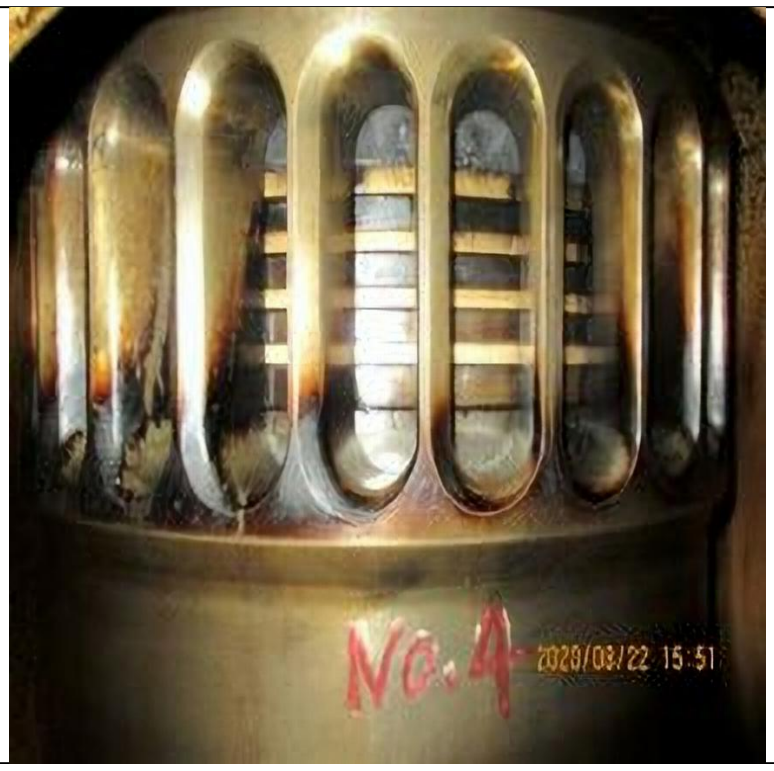
Cylinder No: 5 - Crown - Crown	Cylinder No: 5 - Liner - Liner
	
Cylinder No: 6 - Before Cleaning - Piston Rings	Cylinder No: 6 - After Cleaning - Piston Rings
	
Cylinder No: 6 - Crown - Crown	Cylinder No: 6 - Liner - Liner
	

Cylinder No: 7 - Before Cleaning - Piston Rings	Cylinder No: 7 - After Cleaning - Piston Rings
	
Cylinder No: 7 - Crown - Crown	Cylinder No: 7 - Liner - Liner
	
Cylinder No: 8 - Before Cleaning - Piston Rings	Cylinder No: 8 - After Cleaning - Piston Rings
	

Cylinder No: 8 - Crown - Crown	Cylinder No: 8 - Liner - Liner
	
Cylinder No: 9 - Before Cleaning - Piston Rings	Cylinder No: 9 - After Cleaning - Piston Rings
	
Cylinder No: 9 - Crown - Crown	Cylinder No: 9 - Liner - Liner
	

Cylinder No: 10 - Before Cleaning - Piston Rings	Cylinder No: 10 - After Cleaning - Piston Rings
	
Cylinder No: 10 - Crown - Crown	Cylinder No: 10 - Liner - Liner
	
Cylinder No: 11 - Before Cleaning - Piston Rings	Cylinder No: 11 - After Cleaning - Piston Rings
	

Cylinder No: 11 - Crown - Crown	Cylinder No: 11 - Liner - Liner
	
Cylinder No: 12 - Before Cleaning - Piston Rings	Cylinder No: 12 - After Cleaning - Piston Rings
	
Cylinder No: 12 - Crown - Crown	Cylinder No: 12 - Liner - Liner
	

Cylinder No: 13 - Before Cleaning - Piston Rings	Cylinder No: 13 - After Cleaning - Piston Rings
	
Cylinder No: 13 - Crown - Crown	Cylinder No: 13 - Liner - Liner
	
Cylinder No: 14 - Before Cleaning - Piston Rings	Cylinder No: 14 - After Cleaning - Piston Rings
	

Cylinder No: 14 - Crown - Crown	Cylinder No: 14 - Liner - Liner
	
Cylinder No: 15 - Before Cleaning - Piston Rings	Cylinder No: 15 - After Cleaning - Piston Rings
	
Cylinder No: 15 - Crown - Crown	Cylinder No: 15 - Liner - Liner