CRITICAL EQUIPM	IENT MAINTENA	NCE SHEET	
Vessel: Ocean Intervention		DATE:	December 18, 2020
Equipment Description: PORT MAIN ENGINE		Hours:	20,167
Make: CATERPILLAR	F	O CONSUMPTION:	827.643
Model: 3516B WITH EUI OPTION		,	,
Serial Number: 9AN00144			
Reference: OPERATION & Maint. Manual			
Maintenance Item:	Interval	Last Done	Next Due
Air Starter Lubricator Oil Level - Check	Daily	12/18/2020	12/19/2020
Air Reciever Moisture & Sediment - Drain	Daily	12/18/2020	12/19/2020
Coolant Level - Check	Daily	12/18/2020	12/19/2020
Air Cleaner Element Indicator - Check	Daily	12/18/2020	12/19/2020
Engine Oil Filter Differential Pressure - Check	Daily	12/18/2020	12/19/2020
Engine Oil Level - Check	Daily	12/18/2020	12/19/2020
Fuel Filter Differential Pressure - Check	Daily	12/18/2020	12/19/2020
Leaks, Loose Connections, Vibrations - Check	Daily	12/18/2020	12/19/2020
Instrument Panel - Inspect	Daily	12/18/2020	12/19/2020
Magnetic Pickups - Clean/Inspect	1000 Hours	19,486	20,486
Engine Oil Filters & Fuel Filters - Change	1000 Hours	19,486	20,486
Engine Oil Sample - Obtain	500 Hours	20,047	20,547
Batteries - Check	1000 Hours	20,167	21,167
Coolant Additive - Test/Add	1000 Hours	19,690	20,690
Hoses & Clamps - Inspect/Replace	1000 Hours	20,161	21,161
Engine - Clean	1000 Hours	20,154	21,154
Crankcase Filters - Change	4000 Hours	16,682	20,682
Engine Crankcase Breather - Clean	1000 Hours	19,486	20,486
Engine Oil - Change	1000 Hours	19,486	20,486
Engine Protective Devices - Check	1000 Hours	19,486	20,486
Crankshaft Vibration Damper - Inspect	2000 Hours	19,486	21,486
Engine Mounts - Check	2000 Hours	20,106	22,106
Turbocharger - Inspect	2000 Hours	18,727	20,727
Engine Valve Lash - Inspect/Adjust	4000 Hours	19,580	23,580
Fuel Injectors - Inspect/Adjust	4000 Hours	19,580	23,580
Gear Train - Inspect	4000 Hours	12,136	16,136
CAM Shaft - Inspect	4000 Hours	16,682	20,682
Inspect CAT Control Box	4000 Hours	17.456	21,456
Air Filters - Replace	5000 Hours	18,727	23,727
Air Starter - Inspect	6000 Hours	20,161	26,161
Water Pump - Inspect	6000 Hours	16,682	22,682
Cooling Water Temp. Regulator - Inspect/Replace	10000 Hours	16,682	26,682
Hours Last Engine Top End - Overhaul	7500 Hours	7,106	14,606
Replace main bearings, all fasteners, rebuild gear train	22500 Hours	0	22,500
Engine Top End - Overhaul (First)	512,500 Gallons		728,125
Engine Top End - Overhaul (First)	1,025,000 Gallons		1,025,000
Engine Top End - Overhaul (Third)	1,537,000 Gallon		1,537,500
Engine Major Overhaul Considered	1,537,500 Gallon		1,537,500
Change Wire Harness Every 2nd End Frame Overhaul	2,507,600 5411011	0	

Chief Engineer: James Stinson

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Air filter due @ 23 2-3-20 Clean engine. CB 7	Reason For Mainte	Make Serial Number	Caterpillar
Air filter due @ 23 2-3-20 Clean engine. CB	35 Reason For Mainte	40000 AND STREET	
Air filter due @ 23	35 Reason For Mainte	40000 AND STREET	
Air filter due @ 23	Reason For Mainte	40000 AND STREET	0.43700144
2-3-20 Clean engine. CB	Reason For Mainte	DANAGE AND PROPERTY OF THE PERSON	9AN00144
2-3-20 Clean engine. CB	,727 hours.	nance	
2-3-20 Clean engine. CB		spect mag p	oickups every 1000 hrs
2-8-20- Cleaned and filled			
	air start lubricator as nee		
2-12-20- Inspect air starter			ſM .
2-18-20- Tested Emerg sh 2-18-20- After being taken	utdown at 20,167 hours. J	S JR	C . 1 1790 1920
RPM. We first inspected, cleause. We then replaced the after the engine had been player replacing the eg2 mode.	leaned and ohm out both re e eg2 module on the engire laced online when we took	nag pickups a se which reso tit back offli	and ruled them out as the lived the issue initially but ne the hunting returned.
s the cause. JS			
by adusting the stability po	n the P1 (stability) pot or I mined the gain was good b t clockwise. 5 clockwise well as when going from the	22 (gain) pot. ut found we revolutions el e generator b	using the instructions could elimintate the hunting iminated the hunting when eing online to offline. This
DT CTT 1 30 1			
Name of Vendor if used	ing work		
Name of Vendor it used Name of Persons perform			
			POLICE DE LA CONTRACTOR D
Name of Persons performi	Spares used in Repair /	Maintenance	
	Spares used in Repair /	Maintenance	R.O.B.
Name of Persons performi		Maintenance	
Name of Persons performi		Maintenance	
Name of Persons performi		Maintenance	

Maintenance Procedure Worksheet (to be filed with SMS Report)	
Describe any problems in the space provided below; enter into the Maintenance Worksheet.	lure before starting work.*
Maintenance Regular scheduled maintenance can be found in the critical equipment maintenance folder that is located	
in the ISM folder, Procedures for all scheduled maintenance can be found in the Caterpillar ageration	
and maintenance manual pages 75 - 116 and can be found in the engine control room, all maintenance	
and maintenance manual pages 75 - 116 and carried to the regime control to the	
items have been highlighted in the manual for convenience.	
Basic Job Steps	Complete?
	Yes
Generate JSEA if applicable, produce 5x5 card	Yes
Ensure that the engine has had sufficient time to cool down before starting any work	Yes
Secure air valve to air starter (close) if needed	Yes
Lock out / tag out air starter if needed	
Problems Encountered	2.1-10
FIODICITO LITOURICI SU	Resolved?
Maintainer: Engineering Dept.	

	IENT MAINTENANC		
Vessel: Ocean Intervention	DATE: November 20 Hours: 20,098 F/O CONSUMPTION: 824,777		
Equipment Description: PORT MAIN ENGINE			
Make: CATERPILLAR			
Model: 3516B WITH EUI OPTION			
Serial Number: 9AN00144			
Reference: OPERATION & Maint. Manual			
Maintenance Item:	Interval	Last Done	Next Due
Air Starter Lubricator Oil Level - Check	Daily	11/30/2020	12/1/2020
Air Reciever Moisture & Sediment - Drain	Daily	11/30/2020	12/1/2020
Coolant Level - Check	Daily	11/30/2020	12/1/2020
Air Cleaner Element Indicator - Check	Daily	11/30/2020	12/1/2020
Engine Oil Filter Differential Pressure - Check	Daily	11/30/2020	12/1/2020
Engine Oil Level - Check	Daily	11/30/2020	12/1/2020
Fuel Filter Differential Pressure - Check	Daily	11/30/2020	12/1/2020
Leaks, Loose Connections, Vibrations - Check	Daily	11/30/2020	12/1/2020
nstrument Panel - Inspect	Daily	11/30/2020	12/1/2020
Magnetic Pickups - Clean/Inspect	1000 Hours	19,486	20,486
Engine Oil Filters & Fuel Filters - Change	1000 Hours	19,486	20,486
Engine Oil Sample - Obtain	500 Hours	20,047	20,547
Batteries - Check	1000 Hours	19,975	20,975
Coolant Additive - Test/Add	1000 Hours	19,690	20,690
Hoses & Clamps - Inspect/Replace	1000 Hours	18,488	19,488
Engine - Clean	1000 Hours	19,486	20,486
Crankcase Filters - Change	4000 Hours	16,682	20,682
Engine Crankcase Breather - Clean	1000 Hours	19,486	20,486
Engine Oil - Change	1000 Hours	19,486	20,486
Engine Protective Devices - Check	1000 Hours	19,486	20,486
Crankshaft Vibration Damper - Inspect	2000 Hours	19,486	21,486
Engine Mounts - Check	2000 Hours	20,106	22,106
Turbocharger - Inspect	2000 Hours	18,727	20,727
Engine Valve Lash - Inspect/Adjust	4000 Hours	19,580	23,580
Fuel Injectors - Inspect/Adjust	4000 Hours	19,580	23,580
Gear Train - Inspect	4000 Hours	12,136	16,136
CAM Shaft - Inspect	4000 Hours	16,682	20,682
Inspect CAT Control Box	4000 Hours	17,456	21,456
Air Filters - Replace	5000 Hours	18,727	23,727
Air Starter - Inspect	6000 Hours	13,348	19,348
Water Pump - Inspect	6000 Hours	16,682	22,682
Cooling Water Temp. Regulator - Inspect/Replace	10000 Hours	16,682	26,682
Hours Last Engine Top End - Overhaul	7500 Hours	7,106	14,606
Replace main bearings, all fasteners, rebuild gear train	22500 Hours	0	22,500
Engine Top End - Overhaul (First)	512,500 Gallons	215,625	728,125
Engine Top End - Overhaul (Second)	1,025,000 Gallons	0	1,025,000
Engine Top End - Overhaul (Third)	1,537,000 Gallons	0	1,537,500
Engine Major Overhaul Considered	1,537,500 Gallons	0	1,537,500
Change Wire Harness Every 2nd End Frame Overhaul		0	

Chief Engineer: Joe DeMelo

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Vessel	Ocean Intervention	Date	November 2020
Equipment		Make	
	#3 DG (Port M/E)		Caterpillar
Model		Serial 516 Number	9AN00144
	Reason For Mainte		
Air filter due @	23,727 hours.	nspect mag	oickups every 1000 hrs
11-4-20- Took 1000 hr	oil sample. Performed 1000	HRS service;	changed oil, oil filters, soot
	checked mag pick-ups and o	cleaned; adde	d 207 Gals L/O. Eng. Hrs.
@ 19486. CD/FA/JD	Elter medie en concreter EA		
	filter media on generator. FA erpillar Guam complete 4000		and injector adjustments
Complete cut out test, a		ili vaive iasi	and injector adjustments.
	T Engine Coolant to JW and	1/2 Gal to A	C 19690 Hrs TT CB
	nspect oil level, no oil neede		0. 17070 1110. 11 0.1
11-28-20 Took oil samp			
II ao ao Took on bamp			
Name of Vendor if used			
Name of Persons perfor		ALL THE STREET, STREET	
		1VL 3. / L.	
	Spares used in Repair /	Maintenance	R.O.B.
Quantity	Description		R.O.B.
Chief Engineer -Joe	D M 1		

Describe any problems in the space provided below; enter into the Maintenance Worksheet. *Read this entire procedure	before starting work.*
Regular scheduled maintenance can be found in the critical equipment maintenance folder that is located	
in the ISM folder, Procedures for all scheduled maintenance can be found in the Caterpillar operation	
and maintenance manual pages 75 - 116 and can be found in the engine control room, all maintenance	
items have been highlighted in the manual for convenience.	
items have been highlighted in the mandal for somewhat	A STATE OF THE STA
Basic Job Steps	Complete?
	Yes
Generate JSEA if applicable, produce 5x5 card	Yes
Ensure that the engine has had sufficient time to cool down before starting any work	Yes
Secure air valve to air starter (close) if needed	Yes
Lock out / tag out air starter if needed	
Problems Encountered	Resolved
Maintainer: Engineering Dept.	- Contract of the Contract of

CRITICAL EQUIPMENT MAINTENANCE SHEET			
Vessel: Ocean Intervention		DATE:	October 2020
Equipment Description: PORT MAIN ENGINE		Hours:	19,410
Make: CATERPILLAR	F/O CONSUMPTION: 792,540		
Model: 3516B WITH EUI OPTION			
Serial Number: 9AN00144	*	ē.	
Reference: OPERATION & Maint. Manual			
Vlaintenance Item:	Interval	Last Done	Next Due
Air Starter Lubricator Oil Level - Check	Daily	10/31/2020	11/1/2020
Air Reciever Moisture & Sediment - Drain	Daily	10/31/2020	11/1/2020
Coolant Level - Check	Daily	10/31/2020	11/1/2020
Air Cleaner Element Indicator - Check	Daily	10/31/2020	11/1/2020
ngine Oil Filter Differential Pressure - Check	Daily	10/31/2020	11/1/2020
Engine Oil Level - Check	Daily	10/31/2020	11/1/2020
uel Filter Differential Pressure - Check	Daily	10/31/2020	11/1/2020
eaks, Loose Connections, Vibrations - Check	Daily	10/31/2020	11/1/2020
nstrument Panel - Inspect	Daily	10/31/2020	11/1/2020
Wagnetic Pickups - Clean/Inspect	1000 Hours	18,488	19,488
Engine Oil Filters & Fuel Filters - Change	1000 Hours	18,488	19,488
ingine Oil Sample - Obtain	500 Hours	18,988	19,488
Batteries - Check	1000 Hours	19,975	20,975
Coolant Additive - Test/Add	1000 Hours	18,572	19,572
loses & Clamps - Inspect/Replace	1000 Hours	18,488	19,488
ingine - Clean	1000 Hours	18,488	19,488
Crankcase Filters - Change	4000 Hours	16,682	20,682
Ingine Crankcase Breather - Clean	1000 Hours	18,488	19,488
Engine Oil - Change	1000 Hours	18,488	19,488
Engine Protective Devices - Check	1000 Hours	18,488	19,488
Crankshaft Vibration Damper - Inspect	2000 Hours	16,682	18,682
ngine Mounts - Check	2000 Hours	18,488	20,488
Turbocharger - Inspect	2000 Hours	18,727	20,727
Engine Valve Lash - Inspect/Adjust	4000 Hours	16,682	20,682
Fuel Injectors - Inspect/Adjust	4000 Hours	16,682	20,682
Gear Train - Inspect	4000 Hours	12,136	16,136
CAM Shaft - Inspect	4000 Hours	16,682	20,682
nspect CAT Control Box	4000 Hours	17,456	21,456
Air Filters - Replace	5000 Hours	18,727	23,727
Air Starter - Inspect	6000 Hours	13,348	19,348
Water Pump - Inspect	6000 Hours	16,682	22,682
Cooling Water Temp. Regulator - Inspect/Replace	10000 Hours	16,682	26,682
Hours Last Engine Top End - Overhaul	7500 Hours	7,106	14,606
Replace main bearings, all fasteners, rebuild gear train	22500 Hours	0	22,500
Engine Top End - Overhaul (First)	512,500 Gallons	215,625	728,125
Engine Top End - Overhaul (Second)	1,025,000 Gallons	0	1,025,000
Engine Top End - Overhaul (Third)	1,537,000 Gallons	0	1,537,500
Engine Major Overhaul Considered	1,537,500 Gallons	0	1,537,500
Change Wire Harness Every 2nd End Frame Overhaul	1	0	

Chief Engineer: Joe DeMelo

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	Ocean Intervention	Date	October 2020	
Equipment		Make		
	#2 DC (Part M/E)		Caterpillar	
Model	#3 DG (Port M/E)	Serial	Caterpinal	
/Iouei	35	Number	9AN00144	
	Reason For Mainte	enance		
Air filter due	e @ 23,727 hours.	nspect mag	pickups every 1000 hi	'S
0.21.20 Daily ingno	ctions. No maintenance due. CB			
10-31-20 Daily inspe	CHOIIS. NO Maintenance due. Ch			
		man and		
			The second second second second	
			THE RESERVE THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	
Name of Vendor if u				
Name of Vendor if u				
	rforming work			
	rforming work Spares used in Repair	Maintenanc	26	
	rforming work	Maintenanc	ce R.O.J	В.
Name of Persons pe	rforming work Spares used in Repair	'Maintenanc	ce R.O.J	В.
Name of Persons pe	rforming work Spares used in Repair	['] Maintenanc	ee R.O.I	В.
Name of Persons pe	rforming work Spares used in Repair	['] Maintenanc	ce R.O.J	В.
Name of Persons pe	rforming work Spares used in Repair	Maintenanc	ce R.O.J	В.

Maintenance Procedure Worksheet (to be filed w	th SMS Report)
Describe any problems in the space provided below; enter	r into the Maintenance Worksheet.
Maintenance	*Read this entire procedure before starting work.*
Regular scheduled maintenance can be found in the critic	al equipment maintenance folder that is located
in the ISM folder, Procedures for all scheduled maintenar	age can be found in the Caterpillar operation
and maintenance manual pages 75 - 116 and can be found	and in the engine control room, all maintenance
and maintenance manual pages 75 - 116 and can be local	The first original defined the first original de
items have been highlighted in the manual for convenience	æ.
Basic Job Steps -	Complete
	Yes
Generate JSEA if applicable, produce 5x5 card	V
Ensure that the engine has had sufficient time to cool down	before starting any work Yes
Secure air valve to air starter (close) if needed	Yes
Lock out / tag out air starter if needed	100
Problems Encountered	Resolve
	TOSOITO
The second secon	
Maintainer: Engineering Dept.	
Mantaner. Lightoring sop.	