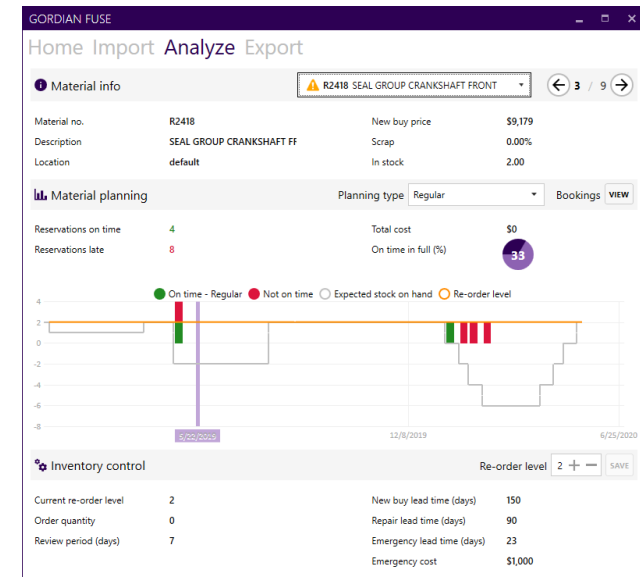
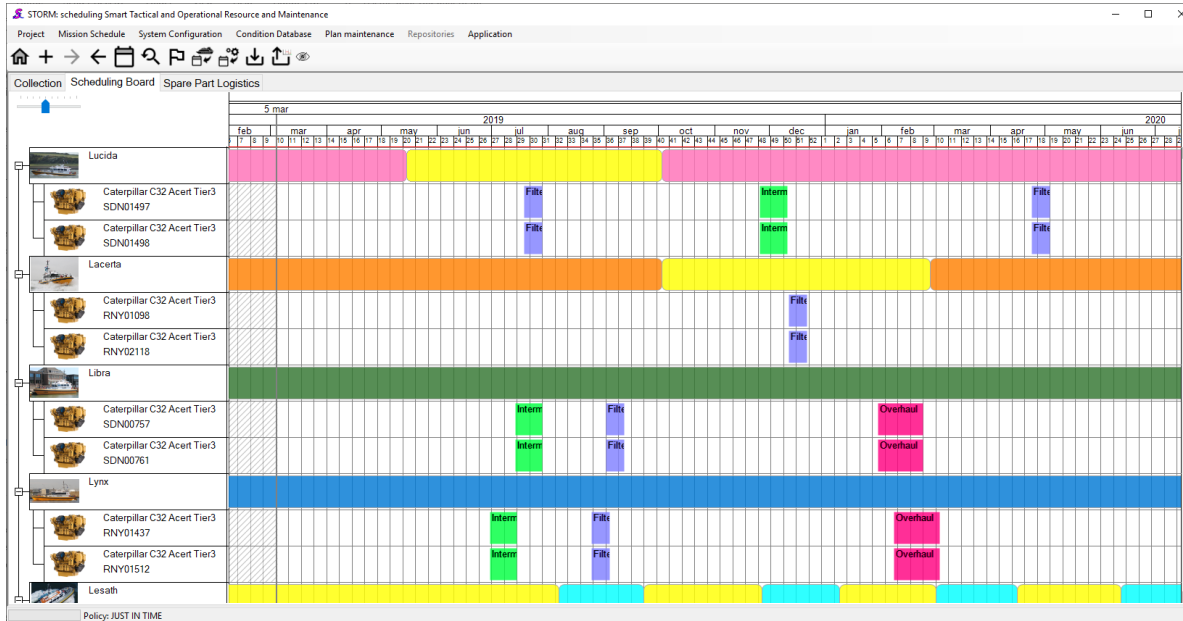




Integrated planning of operations, maintenance & spares

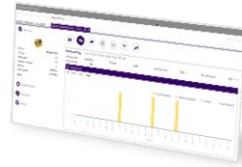
Deliverable PTL06.009.000.D03: Basic demonstrator (screenshots)





Integrated planning of operations, maintenance & spares

Deliverable PTL06.009.000.D03: Basic demonstrator (screenshots)



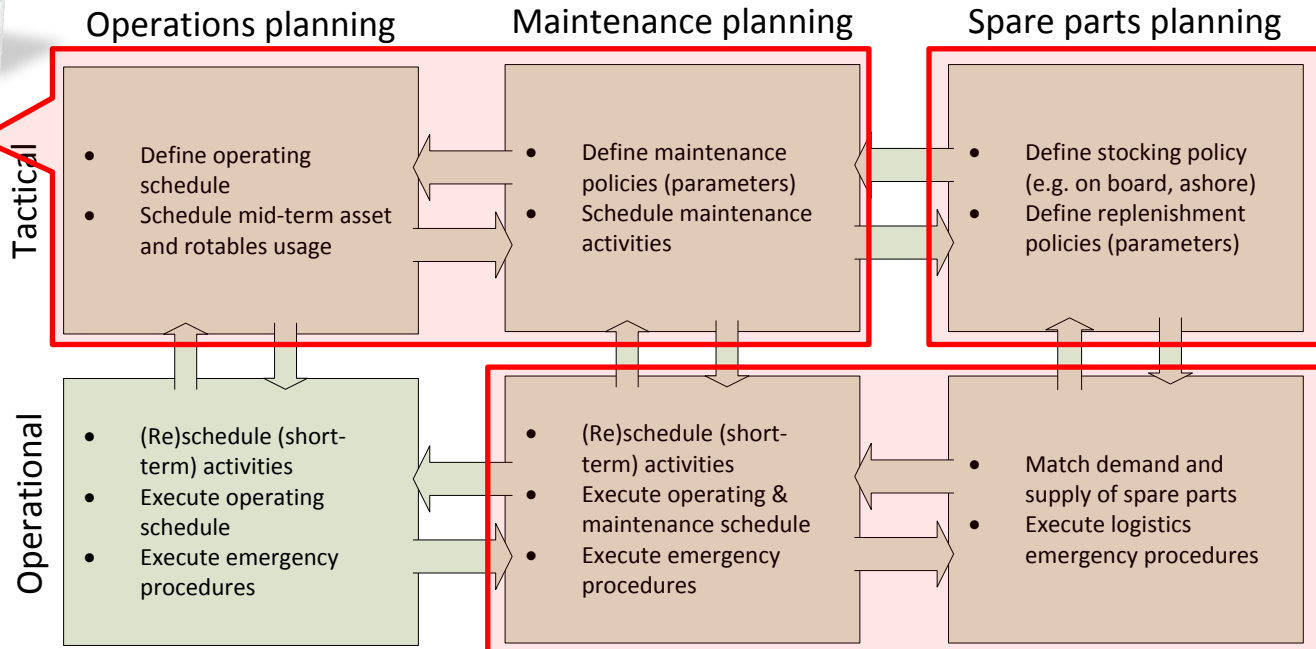
Spare Parts Management Studio

Trade-off spares availability and costs



ERP not sufficient? Gordian fuse!

STORM
Trade-off downtime and maintenance (set-up) costs, under time-phased availability (0/1) of spares















Repository: “create” assets

DialogAssetRepository


Vessel List


-  Commission date: Wednesday, August 8, 2018
-  Vessel name: Libra
Commission date: Friday, February 5, 2016
-  Vessel name: Lucida
Commission date: Tuesday, June 10, 2014
-  Vessel name: Lynx
Commission date: Monday, August 4, 2014
-  Vessel name: Lyra
Commission date: Tuesday, February 5, 2019
-  Vessel name: Orion
Commission date: Tuesday, February 5, 2019
-  Vessel name: Perseus
Commission date: Tuesday, February 5, 2019


Component List

-  Caterpillar C32 Acert Tier3 RNY00293
-  Caterpillar C32 Acert Tier3 RNY00426
-  Cat C32 Acert Tier3 REC temp636858102376689392
-  GMDSS VHF DSC FT-805 A temp636858102412489452

Component Details

-  Component name: Hamilton HM651 waterjet
Degradation variables:

Name	Dimension	Description
Draaiuren	Uren	
-  Component name: GMDSS VHF DSC FT-805 A Class.jpg
Degradation variables:

Name	Dimension	Description
Switches	Aantal	
-  Component name: Cat C32 Acert Tier3 REC
Degradation variables:

Name	Dimension	Description
Draaiuren	Uren	
Brandstofverbruik	Liter	
















Create a project

STORM: scheduling Smart Tactical and Operational Resource and Maintenance

Project Mission Schedule System Configuration Condition Database Plan maintenance Repositories Application

Collection Scheduling Board Spare Part Logistics

 Lucida	 Lacerta	 Libra	 Draco
 Lynx	 Lesath	 Aquila	 Lyra
			
 Caterpillar C32 Acert Tier3 SDN00762	 Caterpillar C32 Acert Tier3 SDN00763		

Policy: JUST IN TIME



Planning board – set the parameters

Component Operating Mode and Maintenance Level Specifications

Caterpillar C32 Acert Tier3

Inspection info | Degradation | Maintenance | Information

Plan name	Variable	Level	# Days	Reset	Delta	Color
Overhaul	Draaiuren [Uren]	14000	25	YES	NO	FF0080
Intermediate	Draaiuren [Uren]	6000	15	NO	NO	00FF00
Minor	Draaiuren [Uren]	2500	3	NO	NO	0080FF
Filter and valve check	Draaiuren [Uren]	500	1	NO	NO	C0C0C0

Component Operating Mode and Maintenance Level Specifications

Caterpillar C32 Acert Tier3

Inspection info | Degradation | Maintenance | Information

Development of degradation variables by operating mode

Mode	Variable	Degradation
UNDEFINED	Draaiuren [Uren]	C(6.500000)
Tender Hoek van Holland	Draaiuren [Uren]	C(10.000000)
Tender IJmuiden	Draaiuren [Uren]	C(6.000000)
Tender Vlissingen	Draaiuren [Uren]	C(4.000000)
Tender Eemshaven	Draaiuren [Uren]	C(14.000000)
Training	Draaiuren [Uren]	LOGNORMAL
Promotie	Draaiuren [Uren]	CONSTANT
HvH Vessel-A	Draaiuren [Uren]	UNIFORM
HvH Vessel-B	Draaiuren [Uren]	ERLANG
		NORMAL
		GAMMA
		WEIBULL
		LOGNORMAL
		EXPONENTIAL

Component Operating Mode and Maintenance Le...

Caterpillar C32 Acert Tier3

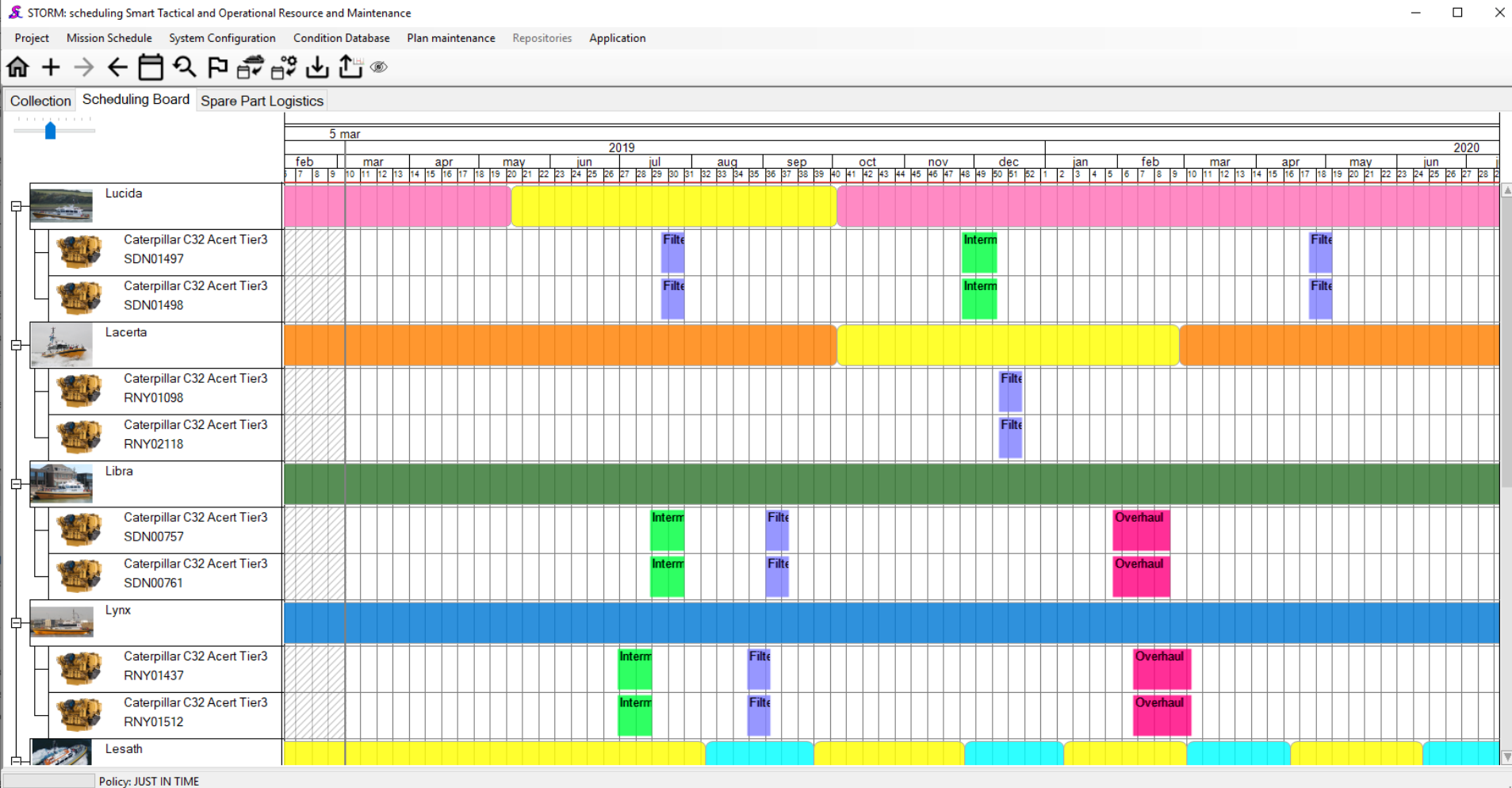
Inspection info | Degradation | Maintenance | Information

Variable inspection data

Component	Variable	Value	Date
RNY02119	Draaiuren [Uren]	12710	2019-02-01
RNY00418	Draaiuren [Uren]	20213	2019-02-01
RNY00419	Draaiuren [Uren]	20213	2019-02-01
RNY01098	Draaiuren [Uren]	8600	2019-02-01
RNY02118	Draaiuren [Uren]	8600	2019-02-01
SDN00762	Draaiuren [Uren]	8806	2019-02-01
SDN00763	Draaiuren [Uren]	8806	2019-02-01
SDN00757	Draaiuren [Uren]	10360	2019-02-01
SDN00761	Draaiuren [Uren]	10360	2019-02-01

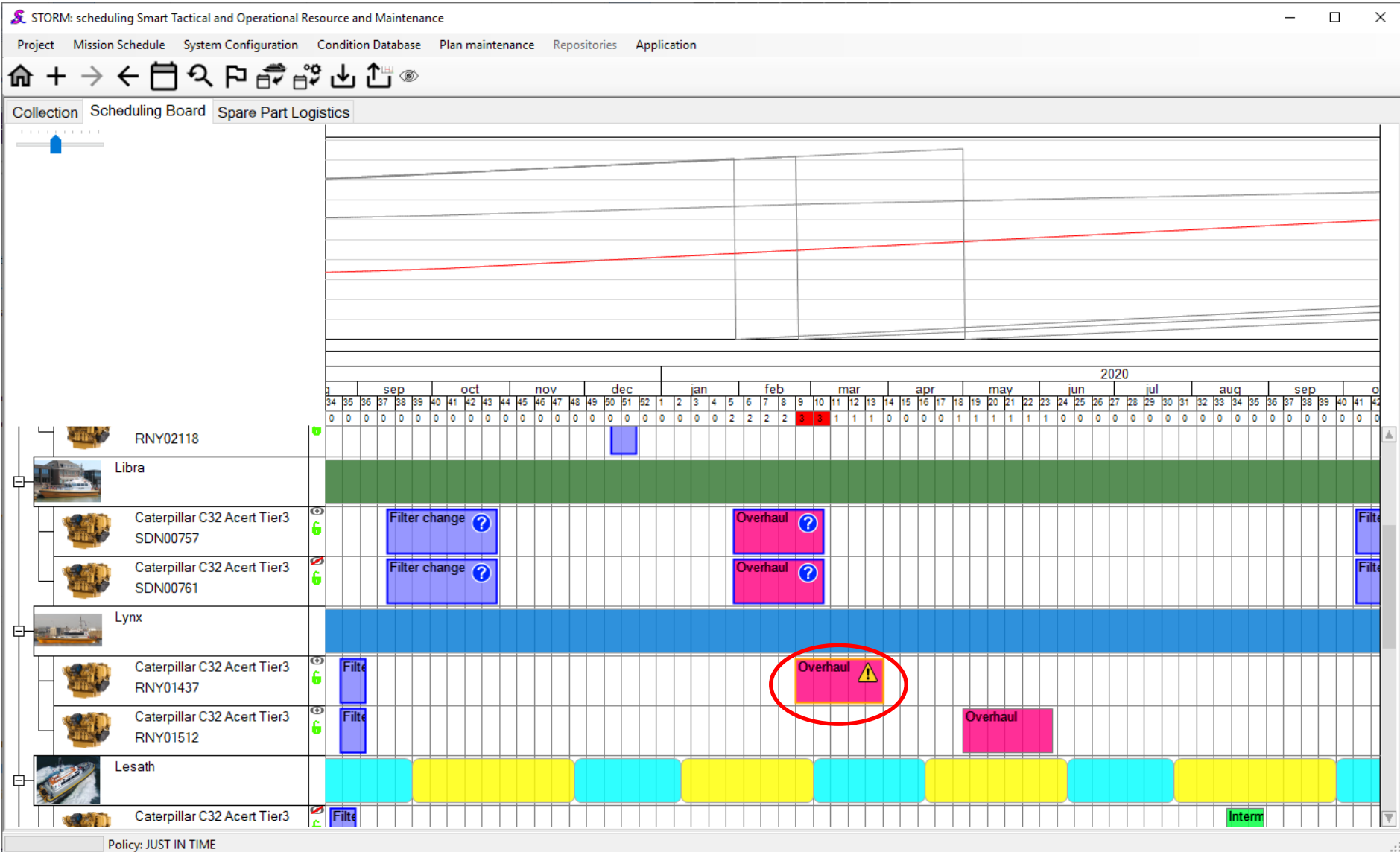


Planning board – create a planning



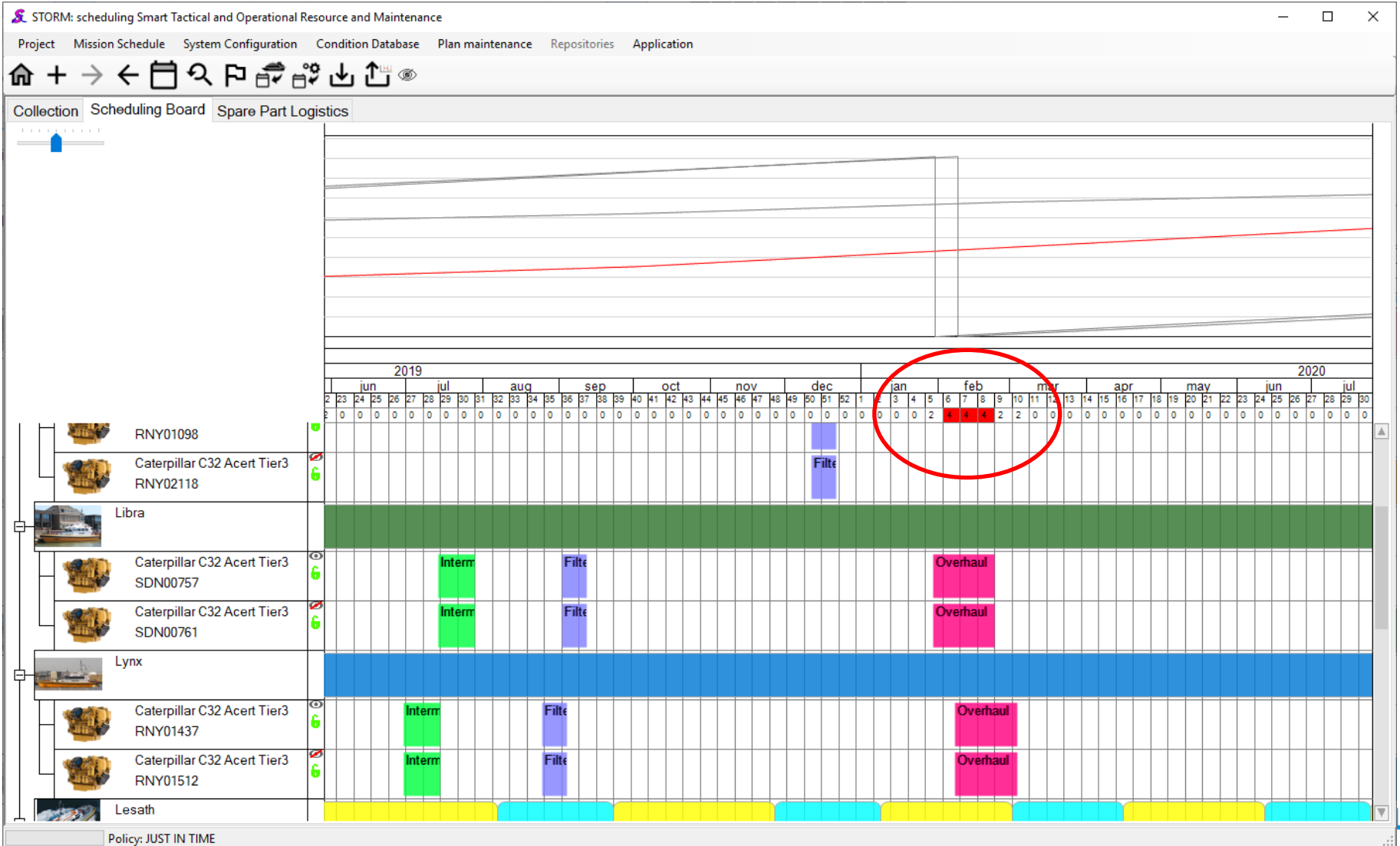


Planning board including “resource check”





Planning board including “asset availability check”





Planning board “spares availability check”

GORDIAN FUSE

Home Import Analyze Export

Material info ⚠️ R2418 SEAL GROUP CRANKSHAFT FRONT ← 3 / 9 →

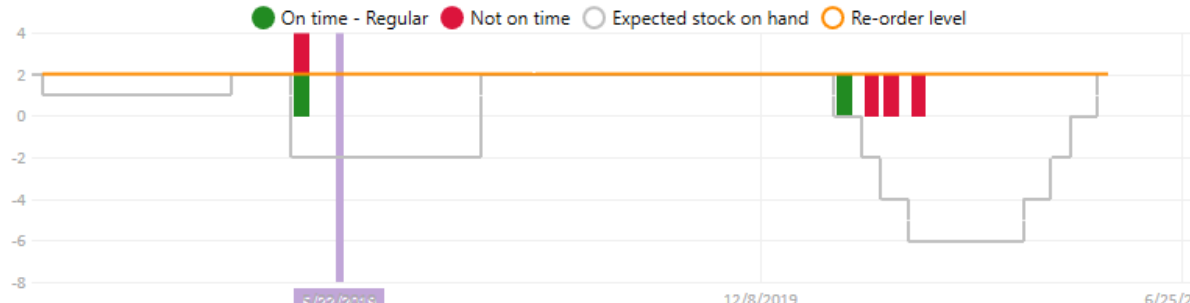
Material no.	R2418	New buy price	\$9,179
Description	SEAL GROUP CRANKSHAFT FF	Scrap	0.00%
Location	default	In stock	2.00

Material planning Planning type: Regular Bookings **VIEW**

Reservations on time: 4 Total cost: \$0

Reservations late: 8 On time in full (%): 33

● On time - Regular ● Not on time ○ Expected stock on hand ○ Re-order level



Inventory control Re-order level: 2 + - **SAVE**

Current re-order level	2	New buy lead time (days)	150
Order quantity	0	Repair lead time (days)	90
Review period (days)	7	Emergency lead time (days)	23
		Emergency cost	\$1,000