

# MRO Inventory Management Best Practices and System Solutions

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# MRO Inventory Management

Goal and Challenges

# MRO Inventory Management - The Goal

- The goal of a MRO Inventory Management System is to ensure that the :
  - Right quantity, of the
  - Right materials, arrive at the
  - Right location, at the
  - Right time, in the
  - Right condition, at the
  - Lowest overall cost

# Challenges

- Who owns the inventory and determines the requirement
- Poor communications between Maintenance/Storeroom
- Reactive versus Proactive Maintenance practices
- Data integrity – connecting items to equipment through accurate Equipment Parts Lists
- How do we track and control “non stock” material
- How do we determine when all required material is available
- When is material released from storeroom to job site and insure return of material not required for repair
- How do we address slow moving and obsolete material
- Systems limitations

# MRO Inventory Management

Our Approach

Part 1

The People

# MRO Inventory Management

## Defining Ownership

- A popular misconception is that Purchasing/Storeroom own the inventory. When the value increases or becomes obsolete, this is where the “blame” is normally placed.
- The reality is that they are really responsible to keep the inventory accurate and useable. (care and control)
- Maintenance, Engineering and Operations actually own the inventory.
- Finance can play a major part in controlling the process

# MRO Inventory Management

## Approach part 1

- Form Site specific MRO teams consisting of Purchasing, Inventory Control, Maintenance, Engineering, Operations and Finance
- Implement Maintenance Best Practices
- Implement rules based Work Order Life cycle process
- Configure the system to drive compliance to the process
- Document policy and monitor the process

# MRO Inventory Management

- Slow Move and Obsolete Material
  - Review item activity on timely basis
  - Maintain accurate Equipment Parts List
  - As equipment is retired utilize EPL item Obsolescence report
  - Review items not associated with EPL on timely basis
  - Review of ROP/ROQ values on a timely basis



# MRO Inventory Management

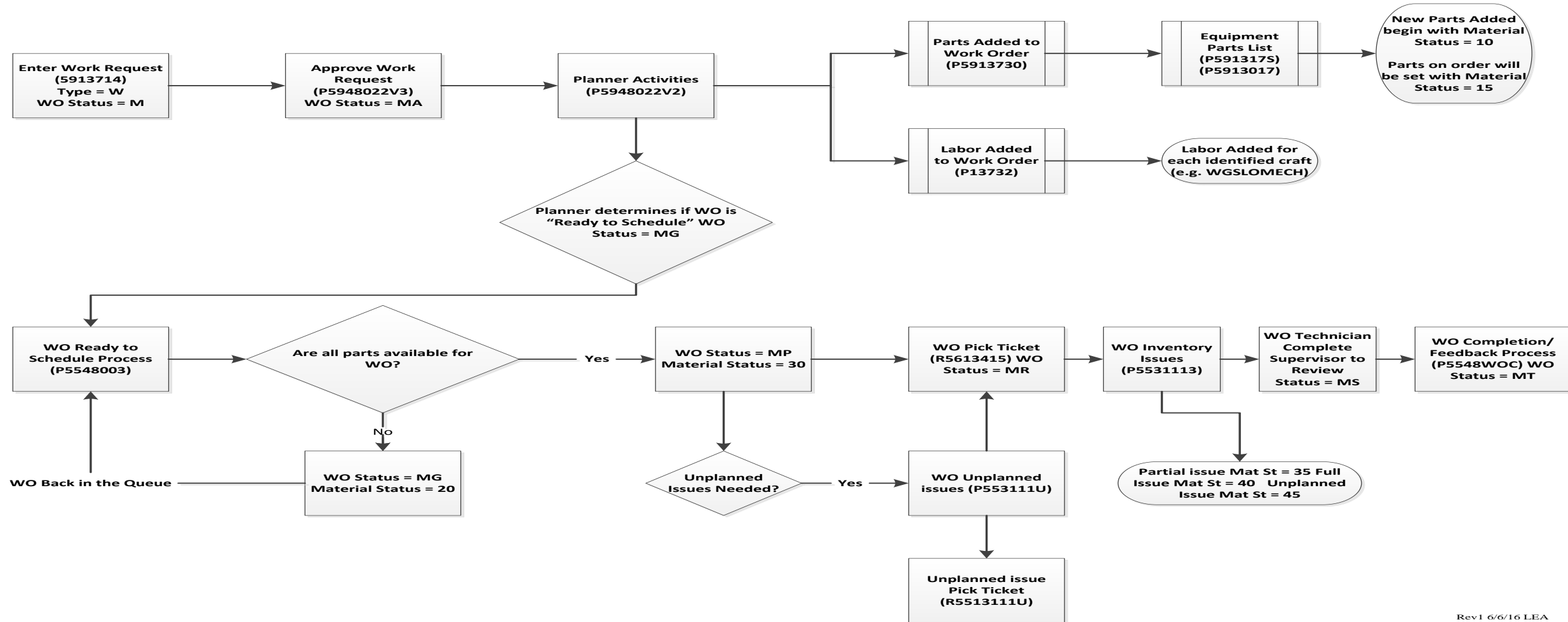
Our Approach

Part 2

System Configuration

# MRO Inventory Management

## Compass Minerals Work Management Life Cycle of a Work Order



# MRO Inventory Management

- The first step to effectively control MRO inventory is to be able to identify which asset the part is required for
- We introduced the “enhanced EPL” to enable us to quickly identify Stock and Non Stock material by asset
- Items can be searched at a component level

# MRO Inventory Management

EQUIPMENT PARTS LIST - SEARCH/SELECT

☒ Unit Number

Unit Number

OGK1520

LINE 1 COMPACTOR

Branch

50220

☐ Std Parts List Number

Std Parts List Nu...

Type BOM

REP

Search Criteria

☒ Show Equipment Components

Description 1 (\*)

Equipment System

☒ Show Stocked Items

Description 2 (\*)

Major Part Class

☒ Show Maint Catalog

Supplier Part (\*)

Supplier No.

Records 1 - 94

Customize Grid

	Item Number	Ln Ty	Description	Description Line 2	OEM Supplier	OEM Supplier Name	Supplier Part Number	Stocking Type	Quantity	UM	UM Primary	Quantity On Hand	Unit Cost	Cost Type	Cor Bra
	▶ OGIZI...		K1520 GAP SENSOR DRIVE SIDE	K1520 GAP SENSOR DRIVE SIDE											
	▶ OGIZI...		K1520 GAP SENSOR IDLE SIDE	K1520 GAP SENSOR IDLE SIDE											
	▶ OGCH...		10 TON COMPACTOR MONORAIL	10 TON COMPACTOR MONORAIL											
	▶ OGIT...		TEMP. ON K1520A WINDING RTD	TEMP. ON K1520A WINDING RTD 5											
	▶ OGLU...		LINCOLN LUBER FOR K1520	LINCOLN LUBER FOR K1520											
	▶ OGLU...		LINCOLN LUBER FOR K1520	LINCOLN LUBER FOR K1520											
	OGNS...	MC	1.5" COMPACTOR SHIM BLOCK	1.5" MACHINED SHIM BLOCK				P	4.0000	EA	EA		251.6850		
	OGNS...	MC	.050" COMPACTOR SHIM	.050" MACHINED SHIM				P	16.0000	EA	EA		17.2432		
	OGNS...	MC	ORANGE COVERS FOR 5811US FRAME	MOTOR DUST COVER PROTECTOR	279337	DYKMAN ELECTRICAL INC.		P	1.0000	EA	EA		1,045.2950		
	OGNS...	MC	RMC122-SSV DWYER GAS ROTAMETER	PEP QUOTE # 71984	280457	PROCESS ENGINEERED PRODUCTS	RMC-122-SSV	P	6.0000	EA	EA		187.6400		
	OGNS...	MC	BELLOW KIT	CYLINDER COVER	280066	LUDMAN INDUSTRIES	200947	P	1.0000	EA	EA		164.7350		
	OGNS...	MC	ROLL SHELL TEMP PROBE UNIT	LUDMAN ROLL TEMP KIT	280066	LUDMAN INDUSTRIES		P	1.0000	EA	EA		13,495.2700		
	2266881	S	BREATHER DES-CASE DC-2	DESSICANT				P	4.0000	EA	EA	14.0000	66.6134		
	▶ 2730103	S	COMPACTOR ROLL ASSEMBLY 4025@					2	1.0000	ST	ST	2.0000	341,212.2400		
	▶ 2809882	S	CYLINDER LUDMAN 10229-001@					2	1.0000	EA	EA	4.0000	13,750.0000		
	2809891	S	TENSIONER LUDMAN 10241-101	4.0-8 SUPERBOLT MECH TENSIONER				P	1.0000	EA	EA	8.0000	1,006.5276		

# MRO Inventory Management

## EQUIPMENT PARTS LIST - ADD/EDIT

☒ Unit Number

Unit Number

OGK1520

LINE 1 COMPACTOR

Branch

50220

☐ Std Parts List Number

Std Parts List Number

Type BOM

REP

Search Criteria

☒ Show Equipment Components

Description 1 (\*)

Equipment System

☒ Show Stocked Items

Description 2 (\*)

Major Part Class



















☒ Show Maint Catalog

Supplier Part (\*)

Supplier No.

Records 1 - 94

Customize Grid

		Item Number	Ln Ty	Description	Description Line 2	OEM Supplier	OEM Supplier Name	Supplier Part Number	Stocking Type	Quantity	UM	UM Primary	Quantity On Hand	Unit Cost	Cost Type
<input checked="" type="radio"/>		 OGLP1520E		SPEED CONTROL FOR K1520	SPEED CONTROL FOR K1520										
<input type="radio"/>		 OGLP1520F		SPEED CONTROL FOR K1520	SPEED CONTROL FOR K1520										
<input type="radio"/>		 OGHPU1502		COMPACTION HYD POWER UNIT	COMPACTION HYD POWER UNIT										
<input type="radio"/>		 OGK1520B		K1520 SO. MOTOR (MOVABLE SIDE)	MOTOR ON K1520 MOVABLE ROLL										
<input type="radio"/>		 OGK1520A		K1520 NO. MOTOR (FIXED SIDE)	MOTOR ON K1520 FIXED ROLL										
<input type="radio"/>		 OGKP1520		K1520 ROLL PRESSURE GAP CONTRO	K1520 ROLL PRESSURE GAP CONTRO										
<input type="radio"/>		 OGLU1520K		K1520 BEARING LUBE SYSTEM	BEARING LUBE SYSTEM K1520										
<input type="radio"/>		 OGIZIT1520A		K1520 GAP SENSOR DRIVE SIDE	K1520 GAP SENSOR DRIVE SIDE										
<input type="radio"/>		 OGIZIT1520B		K1520 GAP SENSOR IDLE SIDE	K1520 GAP SENSOR IDLE SIDE										
<input type="radio"/>		 OGCH1520		10 TON COMPACTOR MONORAIL	10 TON COMPACTOR MONORAIL										
<input type="radio"/>		 OGITEE1520M		TEMP. ON K1520A WINDING RTD	TEMP. ON K1520A WINDING RTD 5										
<input type="radio"/>		 OGLU1520GA		LINCOLN LUBER FOR K1520	LINCOLN LUBER FOR K1520										
<input type="radio"/>		 OGLU1520GB		LINCOLN LUBER FOR K1520	LINCOLN LUBER FOR K1520										
<input type="radio"/>		 OGNS1022	MC	1.5" COMPACTOR SHIM BLOCK	1.5" MACHINED SHIM BLOCK				P	4.0000	EA	EA		251.6850	
<input type="radio"/>		 OGNS1038	MC	.050" COMPACTOR SHIM	.050" MACHINED SHIM				P	16.0000	EA	EA		17.2432	
<input type="radio"/>		 OGNS17115	MC	ORANGE COVERS FOR 5811US FRAME	MOTOR DUST COVER PROTECTOR	279337	DYKMAN ELECTRICAL INC.		P	1.0000	EA	EA		1,045.2950	
<input type="radio"/>		 OGNS17104	MC	BMC123 CONSUMER GAS ROTAMETER	REP QUOTE # 71004	280457	PROCESS ENGINEERING PRODUCTS	BMC 123 CON	P	6.0000	EA	EA		187.6400	

# MRO Inventory Management

- Maintenance Catalogue Items – EPL

## EQUIPMENT PARTS LIST - ADD/EDIT

Unit Number	OGK1520	LINE 1 COMPACTOR	Branch	50220
Parts List Number	OGK1520	LINE 1 COMPACTOR	Type Bill of Material	REP
Skip to Line Number				

Records 1 - 20 > >

	Line ★ No.	Item Number	Ln ★ Ty	Supplier Part Number	Stocking Type	Quantity	UM	Unit Cost	Description	Description Line 2	OEM Supplier	OEM Supplier Name	Cost Type	Is Cd	Compo Branch	Row
<input type="checkbox"/>	60.00	OGNS1022	MC		P	4.0000	EA	251.6850	1.5" COMPACTOR SHIM BLOCK	1.5" MACHINED SHIM BLOCK				I		
<input type="checkbox"/>	61.00	OGNS1038	MC		P	16.0000	EA	17.2432	.050" COMPACTOR SHIM	.050" MACHINED SHIM				I		
<input type="checkbox"/>	71.00	OGNS17115	MC		P	1.0000	EA	1,045.2950	ORANGE COVERS FOR 5811US FRAME	MOTOR DUST COVER PROTECTOR	279337	DYKMAN ELECTRICAL INC.		I		
<input type="checkbox"/>	73.00	OGNS17804	MC	RMC-122-SSV	P	6.0000	EA	187.6400	RMC122-SSV DWYER GAS ROTAMETER	PEP QUOTE # 71984	280457	PROCESS ENGINEERED PRODUCTS		I		
<input type="checkbox"/>	74.00	OGNS18256	MC	200947	P	1.0000	EA	164.7350	BELLOW KIT	CYLINDER COVER	280066	LUDMAN INDUSTRIES		I		
<input type="checkbox"/>	75.00	OGNS18285	MC		P	1.0000	EA	13,495.2700	ROLL SHELL TEMP PROBE UNIT	LUDMAN ROLL TEMP KIT	280066	LUDMAN INDUSTRIES		I		
<input type="checkbox"/>	76.00	2266881	S		P	4.0000	EA	66.6134	BREATHER DES-CASE DC-2	DESSICANT				I		
<input type="checkbox"/>	56.00	2730103	S		2	1.0000	ST	341,212.2400	COMPACTOR ROLL ASSEMBLY 4025@					I		
<input type="checkbox"/>	53.00	2809882	S		2	1.0000	EA	13,750.0000	CYLINDER LUDMAN 10229-001@					I		
<input type="checkbox"/>	54.00	2809891	S		P	1.0000	EA	1,006.5276	TENSIONER LUDMAN 10241-101	4.0-8 SUPERBOLT MECH TENSIONER				I		
<input type="checkbox"/>	4.00	2809911	S		P	1.0000	EA	1,161.0070	FLEX NUT LUDMAN 10242-101	FLEX NUT 4-8UN W/NICKEL PLT				I		
<input type="checkbox"/>	5.00	2809920	S		P	1.0000	EA	1,049.4900	INNER SEAL LUDMAN 11684-110					I		
<input type="checkbox"/>	6.00	2809938	S		P	1.0000	EA	1,545.4950	OUTER SEAL LUDMAN 11684-112					I		
<input type="checkbox"/>	7.00	2809946	S		P	1.0000	EA	4,491.7767	SLEEVE LUDMAN 12192.101	WITHDRAWAL SLEEVE				I		
<input type="checkbox"/>	36.00	2809954	S		I	1.0000	EA	87,556.8000	GEARBOX LUDMAN 12118-101@	COMPACTOR DRIVE GEARBOX				I		50220 REP
<input type="checkbox"/>	37.00	2809962	S		2	1.0000	EA	24,521.2050	MOTOR 500 HP LUDMAN 12960-101@	900 RPM F1 TERMINAL				I		50220 REP
<input type="checkbox"/>	38.00	2809971	S		2	1.0000	EA	4,920.4000	MOTOR 500 HP LUDMAN 12960-102@	900 RPM F2 TERMINAL				I		50220 REP
<input type="checkbox"/>	39.00	2809989	S		P	1.0000	EA	746.2725	SEAL LUDMAN 151020-500-010	EXCLUDER SEAL				I		50220 REP
<input type="checkbox"/>	44.00	2809997	S		P	1.0000	EA	454.4475	SEAL LUDMAN 151020-500-013	EXCLUDER SEAL				I		50220 REP
<input type="checkbox"/>	45.00	2810007	S		P	1.0000	EA	1,190.5534	LOCK NUT LUDMAN 151020-500-011	HM 3096 LOCK NUT				I		50220 REP

# MRO Inventory Management

- Maintenance Catalogue (MC line type) allows for visibility throughout the work order life cycle for non stock (direct order) materials.
- MC items function like a standard S line type but allow us to enforce a requisition and approval process.
- MC items will be held by storeroom under care and control as long as there is a valid work order commitment
- MC items can be monitored for active Work Order commitments and aging

# MRO Inventory Management

- Now that we have established Equipment Parts lists to allow easy additions to the Work Order parts lists as well as identifying stock and direct order items both tracked and stored at a designated location, how do we know when all materials are available
- We utilize Parts Pro – Ready to schedule
- Based on order activity rules the system will update the status of the work order once all requirements have been received and are available



# MRO Inventory Management Parts Pro

RQ5848100  
CMP9003

\*\*\*\*\*FINAL\*\*\*\*\*

Compass Minerals  
Parts Pro - Evaluator Process (GM)

07/18/2019 10:05:36

Page - 78

		Branch		ALL															
		Mat Status		*****Purchase Order Info*****										*****WO Part Quantities*****					
Item No.	Description 1	Ln Ty	Old	New	Co	PO #	Ty	Line #	Req Date	Ordered	Recv'd	Status	Requested	Issued	Required	Avail.	Soft	Avail. for Har	
2466040	SLING SLI48475001.ACKLAND	S	30	30						0	0	/	55	0	55	30	55	85	
2466074	SLING SLI48475002.ACKLAND	S	20	20						0	0	/	4	0	4	4-	4	0	
Order Number	19146894	Status - New				MG				WAITING PARTS, FAB, SERVICE									

Order Number	19228313	LF RAIL AXLE SEAL	Equipment No.	GM3TRACKMOBI	#3 TRACKMOBILE	Type	G GENERAL MAINTENANCE
Priority	7	HIGH, 1 WEEK	Branch	20211	GODERICH MINE SURFACE MRO		
Start Date	07/15/2019		Status - Current	MG	WAITING PARTS, FAB, SERVICE		

		Mat Status		*****Purchase Order Info*****							*****WO Part Quantities*****							
Item No.	Description 1	Ln Ty	Old	New	Co	PO #	Ty	Line #	Req Date	Ordered	Recv'd	Status	Requested	Issued	Required	Avail.	Soft	Avail. for Har
GMNS1527	SEAL 1071924	MC	20	20	00320	19627939	OP	1.000	07/23/2019	1	0	240 / 280	1	0	1	1-	1	0
GMNS23885	CONE BRG OUTER 1006547	MC	20	20	00320	19627939	OP	2.000	07/23/2019	2	0	240 / 280	2	0	2	2-	2	0
GMNS23886	CUP BEARING OUTER 1006545	MC	20	20	00320	19627939	OP	3.000	07/23/2019	2	0	240 / 280	2	0	2	2-	2	0
GMNS23887	CUP BEARING INNER 1006544	MC	20	20	00320	19627939	OP	4.000	07/23/2019	2	0	240 / 280	2	0	2	2-	2	0
GMNS23888	CONE BEARING INNER 1006546	MC	20	20	00320	19627939	OP	5.000	07/23/2019	2	0	240 / 280	2	0	2	2-	2	0
GMNS31683	SEAL SLEEVE 1071926	MC	20	20	00320	19627939	OP	6.000	07/23/2019	1	0	240 / 280	1	0	1	1-	1	0
GMNS31684	DISC BRAKE 1071928	MC	30	30	00320	19627939	OP	7.000	07/23/2019	1	1	280 / 999	1	0	1	0	1	1
2925528	CALIPER 1083940	S	30	30						0	0	/	1	0	1	2	1	3
Order Number	19228313	Status - New				MG		WAITING PARTS, FAB, SERVICE										

# MRO Inventory Management

- Output from item shortage

CMP1000		WO Status Range: MG - MR		WO Item Shortage						Page - 274		
Branch	Item	Description 1	Description 2	Ln Ty	Ordered	Issued	Required	Available	PO#	Line #	Qty Or	Qty Rec
20215	910944	SEAL 1771483 LIP TYPE 988G/H	CBCAT31/TRANSBRAKE	S	1	1	0	3			0	0
20215	913774	FILTER 6003193841 FUEL MAIN	FILTER FUEL MAIN 6003193841	S	6	0	6	0	19653330	2.000	2	0
20215	913782	ORING 07001 02065 BRAKE FILTER	ORING BRAKE FILTER BACK UP	S	1	0	1	1	19652918	5.000	2	0
20215	CBNS10016	CABLE 3A272-1034-2	CBTRACTOR14	MC	1	0	1	1-	19653302	6.000	1	0
20215	CBNS10034	GEAR 187828 JOY	CUT8 *RUSH*	MC	1	1	0	0			0	0
20215	CBNS10037	ST4122 WASHER CAT	CAT 35	MC	4	4	0	0			0	0
20215	CBNS10131	COVER 3A011-1036-0	CBTRACTOR14	MC	1	0	1	1-	19653302	4.000	1	0
20215	CBNS10142	CABLE AS 2569817 CAT	CBCAT31/*RUSH*	MC	1	1	0	0			0	0
20215	CBNS10143	CABLE AS 2600254 CAT	CBCAT31/*RUSH*	MC	1	1	0	0			0	0
20215	CBNS10144	CABLE AS 2600255 CAT	CBCAT31/*RUSH*	MC	1	1	0	0			0	0
20215	CBNS10182	FILM 2867275 CAT	CBCAT31/*RUSH*	MC	1	1	0	0			0	0
20215	CBNS1023	NUT 8T4244 CAT	CAT31 CAB/*RUSH*	MC	10	0	10	4-			0	0
20215	CBNS10231	CABLE 2951299 CAT	CBCAT31/*RUSH*	MC	1	0	1	1-			0	0
20215	CBNS10257	BLOCK 1878674 CAT	CBCAT31/*RUSH*	MC	1	1	0	0			0	0
20215	CBNS10264	PIN 1261767 CAT	JACK COOPER A-SHIFT LOCKER	MC	70	70	0	0			0	0
20215	CBNS10274	BATTERY 1152422 CAT	CBCAT31/*RUSH*	MC	4	4	0	0			0	0
20215	CBNS10305	7M8485 SEAL CAT	CAT37 *RUSH*	MC	2	2	0	1			0	0
20215	CBNS10394	GROMMET 1975470 CAT	CAT 35	MC	4	4	0	0			0	0
20215	CBNS10430	PIN 9X3401 CAT	JACK COOPER A-SHIFT LOCKER	MC	50	50	0	0			0	0
20215	CBNS10563	NUT 02012-60060	CBTRACTOR14	MC	2	0	2	2-	19653302	3.000	2	0
20215	CBNS10565	NUT 02771-60100	CBTRACTOR14	MC	1	0	1	1-	19653302	2.000	1	0
20215	CBNS10567	GROMMET 6V0683 CAT	CBCAT26/TERRYSR/RUSH	MC	1	1	0	0			0	0
20215	CBNS10609	WASHER 04011-50100	CBTRACTOR14	MC	1	0	1	1-	19653302	1.000	1	0

Branch	Item No.	Item Description	Qty On Hand	Qty Committed	WO		WO			Qty Req	Comm	*****Req/PO Information*****				
					WO #	Ty	Priority	St	Date		Flag	Order #	Ty	Line #	Originator	
50220	OGNS2772	SPIRAL TRAC NM07500-11500	1.0000	0.0000												
50220	OGNS2983	SEAL KIT #163126 FOR RCI260	10.0000	0.0000												
50220	OGNS3349	SK BUSHING 1 1/2" BORE	1.0000	0.0000												
50220	OGNS3777	SENSOR FUEL 661-082326	1.0000	0.0000												
50220	OGNS3921	BUSHING SDS 1.125"	1.0000	0.0000												
50220	OGNS3948	GLAND BOLT WARMAN D045M	2.0000	0.0000												
50220	OGNS4044	FIREYE SCANNER PHOENIX	1.0000	0.0000												
50220	OGNS4102	DYE OIL-GLO-40-P SPECTROLINE	1.0000	0.0000												
50220	OGNS4206	EP 20.8% OXYGEN BALANCE NITRO	1.0000	0.0000												
50220	OGNS4270	2" SCH-80 304 S.S. PIPE	4.0000	0.0000												
50220	OGNS4706	VALVE GATE 6" 300#	1.0000	0.0000												
50220	OGNS4785	SWITCH LIMIT 30036933 LANTECH	2.0000	0.0000												
50220	OGNS528	LINKAGE 118-3147	1.0000	0.0000												
50220	OGNS5456	ELBOW 90 2" S.W. 316 S.S.	4.0000	0.0000												
50220	OGNS6249	MMM 08609 URETHANE	4.0000	0.0000												
50220	OGNS6315	9X-3402 SOCKET	100.0000	0.0000												
50220	OGNS7489	2G-5668 WASHER	7.0000	0.0000												
50220	OGNS7558	REDUCER 10" X 6" SCH 80	1.0000	0.0000												
50220	OGNS7577	TUBE SQUARE 4"X4"X1/4" X12	2.0000	0.0000												
50220	OGNS7585	8B-1002 NUT	40.0000	0.0000												
50220	OGNS7809	FLANGE W. N. 6" 150# S.S.	1.0000	0.0000												
50220	OGNS7811	ELBOW 90DEG 6" STAINLESS STEEL	1.0000	0.0000												
50220	OGNS7832	SPACER TB WOOD HUB 8SC-H	1.0000	0.0000												
50220	OGNS7959	PRESSURE SWITCH 146663 SMC	4.0000	0.0000												
50220	OGNS8259	VALVE GLOBE 10" FLANGED #300	1.0000	0.0000												
50220	OGNS8377	ANGLE 1 1/2 X 1 1/2 1/8X 20 SS	2.0000	0.0000												
50220	OGNS8888	6Y812 FILLER RADIATOR	2.0000	0.0000												
50220	OGNS9124	0-TCX-12- FLEX 8EX-AB TRANSMITT	1.0000	0.0000												
50220	OGNS949	BLADE 25877402	2.0000	0.0000												
50220	OGNS9972	SHEAVE #00700204 MARTIN	1.0000	0.0000												

Receipt Date Range: 01/01/2019 - 07/16/2019

Branch	2nd Item Number	Description	Quantity On Hand	PO #	PO Line #	Quantity Ordered	Receipt Date	Quantity Received	Unit Cost	Extended Cost	WO #	Priority	WO St
50220	OGNS8389	86604XE FUEL FILTER	1.0000	19664558	6.000	1.0000	06/13/2019	1.0000	29.1300	29.13	18298023	7	MP
50220	OGNS8591	PN 3445081 A-B SK-R9-FAN11-F6	6.0000	19664231	1.000	3.0000	05/30/2019	2.0000	141.2500	282.50	19182896	5	MP
50220	OGNS8591	PN 3445081 A-B SK-R9-FAN11-F6	6.0000	19664231	1.000	3.0000	05/30/2019	1.0000	141.2500	141.25	19182896	5	MP
50220	OGNS8591	PN 3445081 A-B SK-R9-FAN11-F6	6.0000	19664231	2.000	3.0000	05/30/2019	3.0000	141.2500	423.75	19182898	5	MP
50220	OGNS8888	6Y812 FILLER RADIATOR	2.0000	19660260	2.000	6.0000	01/14/2019	6.0000	35.7100	214.26	19000546	5	MN
50220	OGNS8888	6Y812 FILLER RADIATOR	2.0000	19664254	1.000	6.0000	07/16/2019	2.0000	25.4240	50.85	19000546	5	MN
50220	OGNS8934	GLASS 295-1050	1.0000	19662366	1.000	1.0000	03/21/2019	1.0000	659.4400	659.44	19106959	7	MU
50220	OGNS8934	GLASS 295-1050	1.0000	19664617	2.000	1.0000	06/13/2019	1.0000	659.4400	659.44	19197111	7	MP
50220	OGNS9124	0-TCX-12- FLEX 8EX-AB TRANSMITT	1.0000	19663227	1.000	1.0000	05/10/2019	1.0000	636.9400	636.94	19143610	5	MR
50220	OGNS9124	0-TCX-12- FLEX 8EX-AB TRANSMITT	1.0000	19664500	1.000	1.0000	07/02/2019	1.0000	957.0000	957.00	19247031		MN
50220	OGNS9387	KIT-000012 FILTER KIT SHUTTLE	1.0000	18664933	4.000	1.0000	01/18/2019	1.0000	2,424.1900	2,424.19	18210734	7	MU
50220	OGNS9387	KIT-000012 FILTER KIT SHUTTLE	1.0000	19661134	1.000	1.0000	02/13/2019	1.0000	2,032.5200	2,032.52	19021715	7	MU
50220	OGNS9387	KIT-000012 FILTER KIT SHUTTLE	1.0000	19662629	1.000	1.0000	04/05/2019	1.0000	2,176.8300	2,176.83	19118540	7	MU
50220	OGNS9387	KIT-000012 FILTER KIT SHUTTLE	1.0000	19662629	2.000	1.0000	04/05/2019	1.0000	2,176.8300	2,176.83	19015181	7	MU
50220	OGNS9387	KIT-000012 FILTER KIT SHUTTLE	1.0000	19660429	1.000	1.0000	04/09/2019	1.0000	2,780.6500	2,780.65	18268048	7	MT
50220	OGNS9387	KIT-000012 FILTER KIT SHUTTLE	1.0000	19662867	1.000	1.0000	04/11/2019	1.0000	2,334.6500	2,334.65	19067913	7	MT
50220	OGNS9387	KIT-000012 FILTER KIT SHUTTLE	1.0000	19663692	1.000	1.0000	05/10/2019	1.0000	1,890.4100	1,890.41	19159443	7	MT
50220	OGNS9387	KIT-000012 FILTER KIT SHUTTLE	1.0000	19663950	1.000	1.0000	05/21/2019	1.0000	1,667.5500	1,667.55	19166190	7	MT
50220	OGNS9649	FILTER KIT CM980KW7K01578-1	1.0000	19660193	21.000	1.0000	01/08/2019	1.0000	149.2900	149.29	18268056	7	MU
50220	OGNS9649	FILTER KIT CM980KW7K01578-1	1.0000	19661634	7.000	1.0000	02/27/2019	1.0000	149.2900	149.29	18280358	7	MU
50220	OGNS9649	FILTER KIT CM980KW7K01578-1	1.0000	19662671	12.000	1.0000	04/03/2019	1.0000	149.2900	149.29	18306588	7	MU
50220	OGNS9649	FILTER KIT CM980KW7K01578-1	1.0000	19663836	1.000	1.0000	05/15/2019	1.0000	149.2900	149.29	19103797	7	MT
50220	OGNS9649	FILTER KIT CM980KW7K01578-1	1.0000	19665364	9.000	1.0000	07/16/2019	1.0000	149.2900	149.29	19189154	7	MP
50220	OGNS9674	#2-4/0 X6" RED SHRINK 26908	5.0000	19664216	2.000	5.0000	05/30/2019	5.0000	5.1800	25.90	19173180	7	MG
50220	OGNS9708	FILTER KIT D6TKSB01615-1	1.0000	19661348	5.000	1.0000	02/25/2019	1.0000	102.7800	102.78	18220982	7	MU
50220	OGNS9708	FILTER KIT D6TKSB01615-1	1.0000	19663307	5.000	1.0000	04/25/2019	1.0000	95.9700	95.97	19085749	7	MT
50220	OGNS9708	FILTER KIT D6TKSB01615-1	1.0000	19664225	2.000	1.0000	05/30/2019	1.0000	95.9700	95.97	19166187	7	MT

# MRO Inventory Management

- Rules based Pick Ticket



## WORK ORDER – PICK TICKET

WO (Type / #): S/ 19001250



Equipment	Warranty	Delivery Location
<b>OGPOTASH</b>	NO	OMIN1
Delivery Required	Delivery Instruction	
7/18/2019 9:00:00	some one will pick up	
Deliver To		
JASON R YOUNG		

LOCATION	PART NUMBER		STOCK TYPE	UOM	QUANTITY REQUESTED	QUANTITY ISSUED
M1A1	74915		P	EA	1.00	<input type="text"/>
Description: VALVE SHARPE 50M76 1" BALL 316 SS FULL PORT THREADED				LOT :		
UC5E1	37284		P	EA	2.00	<input type="text"/>
Description: CONTAINER ROPAK P400/M110 5 GALLON FOR OIL W/LID & SPOUT				LOT :		

# MRO Inventory Management - Process

- Maintain accurate and up to date EPL's
- Run EPL obsolete report when retiring equipment
- Run EPL integrity report on regular bases to insure all material is identified
- Finance generates no move report on monthly basis, all items with no movement must be reviewed and justified to remain in inventory or else coded for disposition

# Please complete a session evaluation

Session ID: 123456

Contact Info:

email@email.com

Tel: 555.555.1234



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