



Best Idea

Terranea Resort
Rancho Palos Verdes, CA
July 11, 2017

Challenge

How do we gain control of and reduce our maintenance costs?

Solution

- ▶ Our shop is a separate entity that is also in the business of renting and leasing equipment.
- ▶ Hired someone to oversee DTS owned equipment
 - ▶ Title: Rolling Asset Manager
- ▶ This position creates a separation of interests and additional oversight for DTS equipment.

Goal of this Position

- ▶ Update new maintenance program with historical information
 - ▶ January 1 2016
- ▶ Reduce costs - short term and long term.
 - ▶ Short Term - Reduce duplication of work.
 - ▶ Finding we were repairing the same issue twice.
- ▶ Long Term - Identify areas where preventive maintenance schedules need to be adjusted based on our experiences
- ▶ Enhance the Driver's Experience
 - ▶ Keep the driver out of the shop and moving down the road.
- ▶ Increase Technician Efficiency & Productivity
 - ▶ Pre-scheduling work
 - ▶ All required parts are ordered and ready when the equipment arrives for its work.
 - ▶ Reduction in surprise work because of unexpected breakdowns

Goals cont.

- ▶ Track Equipment in the shop (See Maintenance Shop Register)
 - ▶ Can be summarized by:
 - ▶ Unit
 - ▶ Make
 - ▶ Year
 - ▶ Location
 - ▶ Shop
 - ▶ Reason
 - ▶ Total Days out of service.

Results

- ▶ Just now beginning to identify component issues from our data
 - ▶ Example: After Treatment issues due to excessive idle.
- ▶ We're just one month into the maintenance Register



Make	Number of units	Ave down time
Carrier	10	6.9
Freightliner	9	10.44
Kenworth	2	7
Thermo King	10	6.8
Utility	7	8.43

Unit

Number	Make	Year	Location	Shop	Phone	Reason
368	Thermo King	2009	Salt Lake	Thermo King Intermountain	801-363-1963	Not cooling
301	Freightliner	2013	Denver	Diversified Body & Paint	303-289-4797	Accident
333	Kenworth	2016	Denver	MHC Kenworth	720-941-0833	Campaign/Warranty Repairs
306	Carrier	2006	Salt Lake	Thermo King Intermountain	801-363-1963	Not cooling
819	Freightliner	2013	Salt Lake	Freightliner of Utah	801-978-8080	Overheating
482	Utility	2017	Billings	D&D Transport	406-656-6290	Suspension Run Relay & Glow Plugs - Intake Heater
426	Thermo King	2013	Denver	KAT Works	720-630-5299	Relay
841	Freightliner	2016	Salt Lake	Warner	801-978-8084	Windshield leaking/Warranty
406	Utility	2012	Billings	DTL		Brakes
368	Thermo King	2009	Salt Lake	Thermo King Intermountain	801-363-1963	Not cooling
366	Utility	2009	Salt Lake	United Fleet	801-856-3900	Landing Leg Damage from Denver
340	Carrier	2007	Salt Lake	Carrier Transcold Utah	801-736-5209	over heating and cooling issue
460	Carrier	2015	Billings	Interstate		Front Main Seal
318	Thermo King	2007	Billings	DTL		Coolant Leak
394	Utility	2012	Salt Lake	United Fleet	801-856-3900	cross member by King pin broke
298	Carrier	2006	Billings	DTL		Rear Main Seal
488	Utility	2017	Billings	D&D Transport	406-656-6290	Suspension

Status	Date Out of Service	Date Back In-Service	Total Days in Shop
5/30 - Coolant leak repaired completing PMB - Completion anticipated 5/31	2017-05-25	2017-05-31	6
5/25 - Completion anticipated by 6/1	2017-04-12	2017-06-02	51
5/30 - Sent to Body Shop for repairs/leaks	2017-05-28	2017-06-02	5
5/31 - Not cooling	2017-05-31	2017-06-02	2
5/30 - Awaiting diagnostics * 6/2 - Preliminary diagnosis is harness	2017-05-30	2017-06-04	5
6/6 - sent to D&D	2017-05-23	2017-06-06	14
	2017-06-04	2017-06-06	2
No leaks detected	2017-06-05	2017-06-06	1
Awaiting parts. 6/7 - anticipating completion this afternoon	2017-05-30	2017-06-07	8
6/5 - Not cooling 6/6 - Pressure Transducer needs replacing 6/7 - Front seal is leaking	2017-06-05	2017-06-08	3
6/7 - Awaiting quote	2017-06-06	2017-06-09	3
6/7 - will go to Carrier once it returns	2017-06-08	2017-06-09	1
6/7 - expected completion today. DTL will inspect prior to releasing 6/8 - S/B back at noon	2017-05-30	2017-06-10	11
6/7 - parts ordered	2017-06-04	2017-06-10	6
6/8 - Kevin sent trailer to UF	2017-06-08	2017-06-13	5
6/4 - In process	2017-06-04	2017-06-14	10
5/23 - Within for 482 to come back from D&D 6/6 - sent to D&D. Will be there for several days			
6/14 - scheduled completion by end of week	2017-05-23	2017-06-16	24