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Fleet Services Operational Review – Phase Two Stronger Asset Management Needed

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Asset Management Activities in Fleet Services (Phase 2)



A. Better Procurement Planning Needed

• Vehicle procurement lead time varies widely:

	Light Duty (More Standardized)	Heavy Duty (More Customized)		
Contract available	6-8 months	1-1.5 years		
No contract	1 year	2-3 years		

• Vehicles may not arrive until more than a year later than recommended replacement timelines.

A. Better Procurement Planning Needed

• Staff often have to keep vehicles in operations past their expected useful life due to procurement delays, incurring costly maintenance.

	Annual Cost			
	During Past		Difference	Difference
Vehicle Type	Expected Life	Expected Life	(\$)	(%)
Light Duty	\$2,450	\$2,650	\$200	8%
Medium Duty	\$4,400	\$6,450	\$2,050	47%
Heavy Duty	\$12,500	\$18,200	\$5,700	46%

• Procurement should begin earlier depending on the type of vehicle to provide sufficient lead time.

A. Better Procurement Planning Needed

- The City spent \$875,000 to keep 69 units on the road in their final year of service, only to sell them for \$428,000 within a year.
- Some examples are shown below:

Unit #	Final Year Repair Cost	Sale Price
Unit #1	\$50,873	\$3,865
Unit #2	\$42,688	\$6,290
Unit #3	\$39,107	\$3,349

• We did not identify any potentially inappropriate activity. Rather, the costs were incurred to meet operational needs while waiting for replacement vehicles to arrive

B. Improve End of Life Decision-making

1. Better process needed to flag vehicles for disposal



B. Improve End of Life Decision-making

2. Lack of standard practices in removing vehicles from service when too costly to fix ("beyond economic repairs")



- Too often, these decisions were made too late
- Half of the time, at the time of disposal, vehicles have incurred life-time maintenances costs in excess of their purchase cost

B. Improve End of Life Decision-making

3. Stronger oversight needed for vehicle redeployments



- 164 out of 333 (49%) vehicles have been redeployed for > 3 years
- Many of them should have been disposed much sooner
- Only 38 out of 450 redeployment requests were kept on file.

C. Maintain an Accurate Inventory

As of July 2019, there were 101 units in the City's fleet inventory unaccounted for. The total cost of these units was \$1.9 million.



D. Improve Rental Process and Oversight

- 1. Staff should improve rental pick-up/drop-off logistics to eliminate delays and unnecessary costs
 - City pays \$30 per day in rental charges regardless of whether the vehicle is being used



D. Improve Rental Process and Oversight

- 2. Lack of monitoring of repeated rentals resulted in uneconomical decisions for the City
 - 27 cases since 2010 where users rented vehicles from 2 to 6 years.

Division	Number of times	Avg. years rented	Cost to rent (actual)	Cost to buy* (projected)	Difference
Parks, Forestry & Recreation	11	3.30	\$410,000	\$261,000	\$149,000
Toronto Water	8	2.84	324,000	176,000	148,000
Transportation Services	3	2.93	92,000	37,000	55,000
Facilities Mgmt. & Real Estate	2	3.45	90,000	53,000	37,000
Other	3	2.57	74,000	32,000	42,000
Grand Total	27		990,000	559,000	431,000

• Savings could be higher if analysis includes repeated rentals by different operating units within a division or City-wide.

D. Improve Rental Process and Oversight

Example of a repeated rental



- Savings from purchasing the vehicle: \$18,000+
- Vehicle has been rented since July 2015. As of October 9, the vehicle is still active

E. Strengthen Warranty Administration



F. Strengthen Fleet's Central Oversight Role

• The City needs an overseer with an organization-wide perspective to manage its fleet assets effectively



 In our view, it is important that Fleet Services move from playing an administrator's role to driving policies and decisions and to overseeing user groups to ensure compliance.

Repairs due to "Negligence / Vandalism"

Not All Operators Handle Their Vehicles with Care



\$2.8M (7.8%) of all repairs due to operator error or unreported accidents over 18 months

Work Order Date: May 25, 2018 -"Excessive salt build-up" per mechanic notes

Cost Per Repair Comparison



Driver's Manual Requires Weekly Cleaning of City Vehicles

VEHICLE MAINTENANCE 7.0 **General** care 7.1 **City of Toronto Driver's Manual DI** TORONTO equipment, radios, etc.). **Drive Smart – Drive Safe**

City drivers are responsible for looking after the general condition of City vehicles. Good housekeeping practices must also be maintained by keeping the interior and exterior of the vehicles reasonably clean. City drivers who do not maintain a good appearance of their assigned vehicles may have action taken against their City driving privileges. Driver should adhere to the following guidelines:

- · Vehicle cabs must remain free of loose articles other than the personal equipment required for the work to be performed (i.e., no scavenging, or unauthorized
- No offensive materials, pictures, cartoons or unauthorized signs may be posted in or on a City vehicle.
- Whenever possible, vehicles should be given an exterior
- wash, at a wash bay, at least once per week. All vehicles should be washed when bringing the vehicle
- in for service, especially the undercarriages. Mud and dirt can hide frame and undercarriage problems.

"Good housekeeping practices must also be maintained by keeping the interior and exterior of the vehicles reasonably clean"

"Whenever possible vehicles should be given an exterior wash, at a wash bay, at least once per week. All vehicles should be washed when bringing the vehicle in for service, especially the undercarriages¹⁸

Some Divisions Require Cleaning Prior to Each Shift

SWM Pre-shift Checklist



"Blow out dust and remove any debris from radiator, engine compartment/exhau st, from under the lifting arms, etc. (and leave clean for next shift)"

"Clean and service equipment at end of each day" PF&R Parks Branch Operations Handbook

General Equipment Care

- Familiarize yourself with the manufacturer's recommended operating procedures.
- · Refer to the equipment safety grams and the

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PARKS BRANCH OPERATIONS HANDBOOK

manufacturer's operators manual.

- Check equipment twice a day as per the Daily Service Record Report to be completed and signed each day for all self-propelled equipment.
- Grease and / or lubricate as required.
- Check fuel levels in all equipment. Fill or top up as required.
- Report any equipment damage or wear immediately to your Supervisor or designate.

Clean and service equipment at end of each day.

Example #1

Garbage packed up underneath cylinder causing damage

Two damaged cylinders cost \$40,650 to repair



Example #2

A dump truck came on August 8, 2019 for the end of season maintenance, "still covered in salt" – M5 job notes

Notes for job 11-010-000 - WASH/STEAM VEHICLE.

Note Text

unit covered in salt, on frame and hydraulic hoses, wiring harness's in cab see pictures

re washed unit, was still covered in salt after user washed unit



Example #3

"Debris laying against the cooling package that has accumulated over time"

- Garage Staff



Garage Staff Notify the Supervisor of the Vehicle Operator When They See **Negligence / Vandalism** 'ask for your help to reinforce with From Sent: September 9, 2019 11:08 AM "most of our your staff the To: importance of heavy Subject: FW: cleaning the equipment Good Morning, or lay blame, but to ask for your help is not being equipment" to reinforce with your staff the importance of cleaning the equipment I am sending this e-mail on behalf of to bring to light a little of his frustration when coming in to do repairs at any one of our locations. cleaned While some units are better than others, most of our heavy equipment is not being cleaned properly on a regular basis. properly on Please have a look at the attached pictures from unit ,this repair may not have been needed with proper cleaning & care. The pack of the alternator is over heated and meited because of lack of air flow e pottom of the rad is piled high with garbage & the syringe fell out while removing the batteries. a regular The day to day cleaning & removal of debris is part of your operations staff's daily maintenance inspections and not the job our Road Service Mechanic should be doing. "This repair is willing to show what needs to be done during daily inspections all they have to do is ask basis" Please see the note from below may not have Thanks been needed From Sent: September 9, 2019 9:29 AM To: with proper Subject: This unit looks like it hasn't been properly cared for by the user department. The amount of downtime that cleaning & they bring up is mostly their own creating. The rad has a good 10 inches of concrete and other large chunks built up against it. How long before the unit overheats or blows a radiator is anyone's guess but if it's as important to to the operation as they claim they should start taking better care of it care"

City-Wide Oversight Needed

- Current practice: Fleet notifies and bills user groups for negligence /vandalism monthly.
- AG's Recommendation: The City Manager should implement a process to effectively identify, report, and deter vehicle damages resulting from operating vehicles without care.
- Every 10% reduction in negligence / vandalism represents \$180,000 in cost savings to the City.

Conclusion

- The report provides **<u>20 recommendations</u>** to
 - help improve procurement planning,
 - ensure consistent and economical end-of-life decision making,
 - improve rental processes and oversight,
 - and strengthen warranty administration.
- Some changes will result in cost savings, and an overseer role for Fleet will help ensure the most economical solution for the City as a whole.

AUDITOR GENERAL TORONTO