



City of North Port
DEPARTMENT OF PUBLIC WORKS
Office: 941.240.8050
Fax: 941.240.8063



MEMORANDUM

TO: Pete Lear, Interim City Manager

THROUGH: Daniel Schult, Assistant City Manager *DS*

FROM: Juliana B. Bellia, Director *JBB*

SUBJECT: Walking Excavator and Telescopic Excavator

DATE: June 19, 2017

During their regular meeting held on June 13, 2017, the City Commission reviewed proposed Ordinance No. 2017-18, first reading, amending the Fiscal Year 2016-2017 Non-District Budget and Capital Improvement Program and Budget. The following provides responses to the Commission's questions pertinent to the budget amendments for the purchase of a Walking Excavator and Telescopic Excavator by the Department of Public Works:

1. **Question:** Why is the Department of Public Works purchasing a Walking Excavator and Telescopic Excavator to replace equipment which has not yet met the end of its useful life?

Response: The current industry standard for the life cycle of the Walking Excavator is seven years. *(See attached letter from Mr. Lanny Hollifield, Vice-President, Great Southern Equipment Company dated June 15, 2017).* The current industry standard for the Telescopic Excavator is also seven years. *(See attached letter from Mr. Marc F. Young, Great Southern Equipment Company dated June 15, 2017).* Sarasota County, Charlotte County and Manatee County all utilize the seven-year life cycle as the timeframe for the replacement of their vehicles and equipment.

The City of North Port Fleet Management Division of the Department of Public Works previously had established a useful life of fifteen years for the Telescopic Excavator and twelve years for the Walking Excavator on the Equipment and Fleet Vehicle Replacement Score Sheet. However, the City's Equipment and Fleet Vehicle Replacement Score Sheet has been revised to reflect the most recent industry standard of the seven-year life cycle for both Excavators. *(See attachment nos. 3 and 4).* Please note that the seven-year time is an average estimated life cycle. Other criterion such as depreciation, down time, usage and maintenance costs are analyzed during the vehicle and equipment replacement process.

Therefore, it has been determined that the 2004 Telescopic Excavator and 2007 Walking Excavator have both met the end of their useful life.

2. **Question:** Why are the purchase prices so much higher than what we originally budgeted?

Response: The following provides responses to this question pertinent to the Walking Excavator and the Telescopic Excavator:

Walking Excavator

The summary below outlines the following: 1) 2017 Road and Drainage District budget funding allocation for replacement of Walking Excavator, CID No. 71272 and 2) Additional purchase options to accommodate Walking Excavator:

A. 2017 Road and Drainage District Budget Funding Allocation for Replacement of Walking Excavator, CID No. 71272

A total of \$290,000.00 was budgeted for a base model machine which included minimal purchase options, two-wheel drive with two large rear wheels and two small front wheels. The cost of the base model machine is \$254,235.00. This type of machine will not work in the wet and muddy environment where Public Works typically conducts their maintenance activities. Upon further review of the type of machine that would be best suited for the site conditions, it was determined that a four-wheel drive machine would be more appropriate.

B. Additional Purchase Options to Accommodate Walking Excavator

- **Four-Wheel Drive Machine:** The original budget did not include a four-wheel drive option. The four-wheel drive is necessary for reasons stated above. This option adds \$62,815.00 to the cost of the Walking Excavator.
- **Powerline Hydraulic System:** The original budget amount did not include the Powerline Hydraulic System option. This is an upgrade to the hydraulic system that enables the machine to continue to operate effectively in deep mud, sand or water situations by dividing the hydraulic system into two separate systems. The systems work independently, one to operate the driveline and the other to operate the boom and attachments (mower, grapple, bucket). This eliminates the loss of power when utilizing multiple controls simultaneously. The Powerline option adds \$14,235.00 to the cost of the Walking Excavator.

- **Auto Grease System:** The original budget amount did not include the Auto Grease System option for the entire machine and for the mowing head attachment. This machine operates in harsh conditions, sand and water can work their way into the numerous bushings, bearings and friction points. The Auto Grease System keeps these areas constantly greased which forces any damaging contaminants out. This will prolong the working life of the bushings, bearings and friction points. The Auto Grease option adds \$19,200.00 to the cost of the Walking Excavator.
- **Hydraulic Grapple with 360-degree Rotation.** The original budget amount did not include the Hydraulic Grapple with 360-degree Rotation. This attachment is used to grab and move materials and debris. The Grapple is a necessity to clear blockages such as downed trees and place or remove large rock/riprap in the drainage waterways. The Grapple attachment adds \$18,900.00 to the cost of the Walking Excavator.
- **Hydraulic Leak Line:** The original budget amount did not include the Hydraulic Leak Line. The Hydraulic Leak Line is a safety system designed to capture hydraulic oil in the case of hydraulic system failure and reduce the possibility of introducing the oil into the environment. The Hydraulic Leak Line option adds \$1,882.00 to the cost of the Walking Excavator.
- **Biodegradable Hydraulic Oil:** The original budget amount did not include the Biodegradable Hydraulic Oil. The Biodegradable Hydraulic Oil option limits the impact to the environment and cleanup costs in case of minor leaks or a catastrophic hydraulic system failure. The Biodegradable Hydraulic Oil option adds \$2,530.00 to the cost of the Walking Excavator.
- **Powertilt Actuator:** The original budget amount did not include the Powertilt Actuator option. The Powertilt Actuator option allows the operator to articulate the boom attachment to various angles as needed for maintenance operations. This is a required option in order to utilize the mower deck and grapple attachment. The Powertilt Actuator option adds \$7,950.00 to the cost of the Walking Excavator.
- **Fifty-Inch Mower Deck:** The original budget amount did not include the Fifty-Inch mower deck attachment. This attachment is used to mow heavy vegetation, brush and trees in clearing drainage easements and canals that cannot be accessed with other machines. The Fifty-Inch Mower Deck attachment option adds \$18,000.00 to the cost of the Walking Excavator.

- **Reversible Cooling Fan:** The original budget amount did not include the Reversible Cooling Fan option. This allows the operator to reverse the cooling fan to blow out the radiator while operating the equipment in the field. This equipment creates a lot of small debris while mowing that can cover the radiator screens and cause the equipment to overheat. The Reversible Cooling Fan option adds \$2,799.90 to the cost of the Walking Excavator.
- **Tinted Windows:** The original budget amount did not include Tinted windows. This will help to reduce glare during operation to improve operator visibility and safety. This will also assist in protecting the interior from damaging ultraviolet rays and potentially increase resale value when the equipment is replaced. The Tinted Window option adds \$500.00 to the cost of the Walking Excavator.

Please note that the existing Walking Excavator, CID 71272 is not field operational. This machine was completely submerged in water resulting from an accident during a retention ditch excavation during the first year of service. This accident in our opinion has contributed to the increased rate of mechanical decline in the Walking Excavator.

Telescopic Excavator

The original cost of \$265,000.00 for the Telescopic Excavator was calculated by the Fleet Management Division and included in the fiscal year 2017 Road and Drainage District budget to replace the existing Telescopic Excavator, CID No. 70403. The actual amount needed to purchase the equipment currently is \$341,234.00. Unfortunately, the funding to accommodate the United States Department of Environmental Protection Tier 4 Final Emissions Standards was not added to the original purchase price of the Telescopic Excavator. The Tier 4 Final Emissions Standards adds \$76,234.00 to the cost of the Telescopic Excavator.

Beginning in 2008, the United States Environmental Protection Agency (EPA) imposed Emissions Standards through 2021. The Emissions Standards includes various Tiers of annual requirements. For example, Tier 4 was imposed in 2015-2016 and required significant emission reductions of particulate matter and nitrogen oxides defined as the black smoke/soot found in engine diesel engine exhaust, and nitrogen oxides defined as nitrogen monoxide and nitrogen dioxide. Annually, compliance with specific Emission Standards will be required.

Typically, the City of North Port purchases their vehicles and equipment utilizing the Florida Sheriff's Association & Florida Association of Counties Cooperative Bid. The Florida Sheriff's Association & Florida Association of Counties Cooperative Bid begins on October 1st and ends on September 30th each year, hence the competitive prices of vehicles and equipment also change annually.

There is not a defined annual monetary increase of either the Florida Sheriff's Association & Florida Association of Counties Cooperative Bid prices or the United States Department of Environmental Protection Agency Emission Standards. However, staff will develop an inflationary factor for each to be included in the total cost of the vehicles and equipment purchases. The Emission Standards has been increasing between 9% to 15% each year so staff will have a baseline to work with. An inflationary factor also needs to be developed for the procurement of the vehicles and equipment. It generally takes a year to complete the procurement process for vehicles and equipment resulting in the purchase prices being subject to the subsequent Florida Sheriff's Association & Florida Association of Counties Cooperative Bid.

Although inclusion of inflationary factors for the Florida Sheriff's Association & Florida Association of Counties Cooperative Bid and Emission Standards attempts to capture all the costs associated with the vehicles and equipment, the possibility still exists that the final costs of the vehicles and equipment may be over or under the budgeted amounts.

Should you have any questions, or desire any additional information, please do not hesitate to contact me.

JBB/jbb

Attachments:

- 1) Letter from Mr. Lanny Hollifield, Vice-President, Great Equipment Company dated June 15, 2017
- 2) Letter from Mr. Marc F. Young, Great Equipment Company dated June 15, 2017
- 3) Equipment and Fleet Vehicle Replacement Score Sheet for the Walking Excavator
- 4) Equipment and Fleet Vehicle Replacement Score Sheet for the Telescopic Excavator



Great Southern Equipment Company

June 15th 2017

Mr. Steve Cassell

Fleet Supervisor

City of North Port

1100 N Chamberlain Blvd.

North Port, FL 34286

Dear Steve,

GS Equipment is the authorized U.S. distributor for the Kaiser All-Terrain Walking Excavators. The machines are used in many applications and the life expectancy can vary. However, many Florida municipalities work in similar conditions, mowing and grading in wet areas such as ditches, canals, and ponds. We have developed some impressions about the best useful life of the machine in these operations.

The main components – engine, pumps, etc. – have a 10 year/7500 hour design life. However, the machine has a lot of hoses and seals with a limited life span. Although the major parts are still good, repairs and downtime increase as the machines age due to cylinder and valve leaks, and hose failures. Our hot Florida environment also impacts these areas. For this reason most municipal customers set an ideal replacement schedule at around 7 years.

I hope this information will be useful in analyzing your equipment. If you have any questions please don't hesitate to contact me.

Great Southern Equipment Co.

A handwritten signature in black ink, appearing to read 'L. Hollifield'.

Lanny Hollifield



Great Southern Equipment Company

4555 Laredo Avenue • Fort Myers, FL 33905
Ph (239) 334-6063 • Fax (239) 334-4530
www.gsequipment.com

15 June 2017

Mr. Steve Cassell
Fleet Supervisor
City of North Port
1100 N. Chamberlain Blvd
North Port, FL 34286

Mr. Cassell -

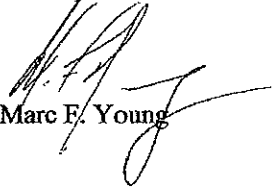
As per our earlier conversation concerning the useful life of the Gradall Telescopic Excavators, the generally accepted period is 7 years. The annual hours of use generally ranges between 800 to 1,000.

Some municipalities and government agencies will modify their life cycles depending on the severity of the application and hours of use.

Most commonly in Southwest Florida, Gradalls are used to maintain storm water drainage ditches, swales and storm cleanup.

Please feel free to contact me if you require any additional information.

GREAT SOUTHERN EQUIPMENT COMPANY



Marc F. Young

EQUIPMENT & FLEET VEHICLE REPLACEMENT SCORE SHEET**PW Operations & Maintenance**

																	As of 6/14/2017			
CID #	Equip/Veh Description	Purchase or Model Year	Purchase Cost excluding trade value	Current Mileage or Hours	Life Cycle					Miles or Hours		Service Type	Reliability Poor = 5 Fair = 3 Good = 1	Life-To-Date M&R Costs (minus tires & PM)			Condition Poor = 5 Adequate = 4 Fair = 3 Good = 2 Excellent = 1	Total Points	Grade < 15 Pts = Excellent 15-25 Pts = Good 26-33 Pts = Replacement Qualified > 33 Pts = Immediate Replacement	
					Useful Life years	Miles or Hours	Current Life	Remaining Life (see note)	Score	10k = 1 Pt Round to nearest whole number	750 hrs = 1 Pt Round to nearest whole number			\$ Expensed	Purchase	≥ 100% Veh Cost = 5 Pts 75%-99% Veh Cost = 4 Pts 50%-74% Veh Cost = 3 Pts 25%-49% Veh Cost = 2 Pts ≤ 24% Veh Cost = 1 Pt				
71272	Kaiser	2007	\$239,602	3,893 hrs	7		10				6	5	3	\$130,460		3	4	31	Replacement Qualified	



CITY OF NORTH PORT
VEHICLE REPAIR HISTORY REPORT
 FACILITY: 00001

1-32/RRV PAGE: 1
 DATE: 06/14/2017 01:27 p.m.

*Walking Excavator
 (Kaiser)*

STARTING VMRS CODE: 000-000-000
 ENDING VMRS CODE: 999-999-999

DATE: FIRST
 DATE: LAST

VEHICLE: 71272
 VEHICLE: 71272

UNIT: 71272	LF MTR: 3893.0	CUR MTR: 3893.0	YR: 07	MAKE: KAISER	DEPT: PW-OPER	SIZE: H	CLASS: EXCAVATO	FUEL: D			
VMRS Code	DATE	WO NUM	LF-UNTS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS MECHANIC	CC RC WA
001		TITLE >	A/C, HEAT, VENTILATI								
001-000-000	10082015	0012208	3730	3739	A/C, HEAT, VENTILA		271.86	776.16	1048.02	7.84 RP	01 1 XX
001-000-000	06272014	0006158	2840	2842	A/C, HEAT, VENTILA		780.39	529.00	1309.39	5.29 GS	XX 1 XX
001-000-000	06032014	0006158	2820	2828	A/C, HEAT, VENTILA		0.00	125.00	125.00	1.25 GS	01 1 XX
001		TOTAL >	A/C, HEAT, VENTILATI								
							1052.25	1430.16	2482.41		
002		TITLE >	CAB/SHEET METALS								
002-000-000	01122015	0008954	3280	3284	CAB/SHEET METALS		0.00	1.98	1.98	0.02 SD	01 1 XX
002		TOTAL >	CAB/SHEET METALS								
							0.00	1.98	1.98		
003		TITLE >	INSTRUMENTS, GAUGES								
003-012-000	11192015	0012208	3740	3739	WARNING LIGHT		29.28	178.20	207.48	1.80 RP	01 1 XX
003-012-000	07152015	0011022	3670	3667	WARNING LIGHT		0.00	0.00	0.00	0.00 GS	XX 1 XX
003-012-000	07152015	0011022	3670	3667	WARNING LIGHT		0.00	160.38	160.38	1.62 GS	01 1 XX
003		TOTAL >	INSTRUMENTS, GAUGES								
							29.28	338.58	367.86		
015		TITLE >	STEERING								
015-000-000	04112016	0014317	3890	3893	STEERING		1274.00	425.83	1699.83	4.39 RP	01 1 XX
015		TOTAL >	STEERING								
							1274.00	425.83	1699.83		
017		TITLE >	TIRES								
017-000-000	10232013	0003907	2740	2740	TIRES		9000.00	0.00	9000.00	0.00	01 1 XX
017-000-000	07192013	0002600	2740	2740	TIRES		0.00	0.00	0.00	0.00 GS	01 1 XX
017-002-000	01172017	0017982	3890	3893	TIRE REPLACE		77.95	0.00	77.95	0.00	01 1 XX
017		TOTAL >	TIRES								
							9077.95	0.00	9077.95		
018		TITLE >	WHEELS, RIMS, HUBS, BEA								
018-000-000	06142016	0015057	3890	3893	WHEELS, RIMS, HUBS, B		0.00	297.79	297.79	3.07 RP	01 1 XX
018		TOTAL >	WHEELS, RIMS, HUBS, BEA								
							0.00	297.79	297.79		
032		TITLE >	CRANKING SYSTEM								
032-002-000	12302016	0017724	3890	3893	BATTERY		144.02	80.50	224.52	1.15 GS	XX 1 XX
032-002-000	11092012	0000092	0	0	BATTERY		141.90	0.00	141.90	0.00	01 1 XX
032-013-000	12302016	0017724	3890	3893	BATTERY TEST		0.00	59.50	59.50	0.85 GS	XX 1 XX
032		TOTAL >	CRANKING SYSTEM								
							285.92	140.00	425.92		
034		TITLE >	LIGHTING SYSTEM								
034-000-000	10052015	0012208	3670	3667	LIGHTING SYSTEM		0.98	198.99	199.97	2.01 RP	01 1 XX



CITY OF NORTH PORT
VEHICLE REPAIR HISTORY REPORT
 FACILITY: 00001

1-32/RRV PAGE: 2
 DATE: 06/14/2017 01:27 p.m.

STARTING VMRS CODE: 000-000-000
 ENDING VMRS CODE: 999-999-999

DATE: FIRST
 DATE: LAST

VEHICLE:: 71272
 VEHICLE: 71272

UNIT: 71272	LF MTR: 3893.0		CUR MTR: 3893.0		YR: 07	MAKE: KAISER	DEPT: PW-OPER		SIZE: H	CLASS: EXCAVATO	FUEL: D			
VMRS Code	DATE	WO NUM	LF-UNTS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
034-000-000	04062015	0009922	3490	3487	LIGHTING SYSTEM		106.00	62.37	168.37	0.63	GS	XX	6	XX
034-000-000	07222013	0002600	2740	2740	LIGHTING SYSTEM		153.00	81.18	234.18	0.82	GS	01	1	XX
034		TOTAL >	LIGHTING SYSTEM				259.98	342.54	602.52					
042		TITLE >	COOLING SYSTEM											
042-000-000	04112016	0014317	3890	3893	COOLING SYSTEM		1532.75	242.50	1775.25	2.50	RP	01	1	XX
042-000-000	09242015	0012195	3670	3667	COOLING SYSTEM		0.00	138.60	138.60	1.40	RP	01	1	XX
042-000-000	06172015	0010967	3670	3667	COOLING SYSTEM		81.03	0.00	81.03	0.00	GS	XX	1	XX
042-000-000	06172015	0010967	3660	3667	COOLING SYSTEM		0.00	338.58	338.58	3.42	GS	01	1	XX
042-000-000	02112015	0009355	3400	3395	COOLING SYSTEM		0.00	163.35	163.35	1.65	GS	01	6	XX
042-000-000	12092014	0008692	3140	3138	COOLING SYSTEM		0.00	110.88	110.88	1.12	SD	01	6	XX
042-000-000	08192014	0007172	2970	2972	COOLING SYSTEM		138.93	181.00	319.93	1.81	SD	XX	5	XX
042-000-000	06202014	0006656	2830	2828	COOLING SYSTEM		0.00	193.00	193.00	1.93	SD	01	6	XX
042-002-000	01082015	0008954	3140	3138	BELT ADJUST		0.00	26.73	26.73	0.27	SD	XX	1	XX
042-004-000	02062014	0004954	2800	2802	FAN BELT OR ALL		30.77	191.00	221.77	1.91	GS	XX	5	XX
042-012-000	06242014	0006656	2840	2842	WATER HOSE (ONE)		89.50	0.00	89.50	0.00	SD	XX	6	XX
042-037-000	04292015	0009922	3570	3575	THERMOSTAT		277.62	126.72	404.34	1.28	GS	XX	6	XX
042-045-000	10072015	0012208	3670	3667	WATER PUMP		535.69	311.85	847.54	3.16	RP	01	1	XX
042		TOTAL >	COOLING SYSTEM				2686.29	2024.21	4710.50					
043		TITLE >	EXHAUST SYSTEM											
043-000-000	04052016	0014313	3890	3893	EXHAUST SYSTEM		0.00	139.68	139.68	1.44	RP	01	1	XX
043-000-000	06032014	0006158	2830	2828	EXHAUST SYSTEM		0.00	93.00	93.00	0.93	GS	XX	1	XX
043-005-000	04052016	0014317	3890	3893	EXHAUST FLEX PIPE		3057.47	390.91	3448.38	4.03	RP	01	1	XX
043		TOTAL >	EXHAUST SYSTEM				3057.47	623.59	3681.06					
044		TITLE >	FUEL SYSTEM											
044-000-000	12302016	0017724	3890	3893	FUEL SYSTEM		275.99	102.90	378.89	1.47	GS	XX	1	XX
044-000-000	03042015	0009639	3490	3487	FUEL SYSTEM		0.00	71.28	71.28	0.72	RP	01	6	XX
044-024-000	03042015	0009639	3490	3487	FILTER FUEL		58.41	0.00	58.41	0.00	RP	XX	6	XX
044		TOTAL >	FUEL SYSTEM				334.40	174.18	508.58					
045		TITLE >	ENGINE/DRIVABILITY											
045-000-000	01262017	0017724	3890	3893	ENGINE/DRIVABILITY		12.93	123.20	136.13	1.76	GS	XX	1	XX
045-000-000	02022016	0013713	3880	3883	ENGINE/DRIVABILITY		0.00	0.00	0.00	0.00	GS	XX	1	XX
045-000-000	02022016	0013713	3880	3883	ENGINE/DRIVABILITY		0.00	46.56	46.56	0.48	GS	01	1	XX
045-000-000	01152015	0008954	3280	3284	ENGINE/DRIVABILITY		30.33	59.40	89.73	0.60	SD	XX	1	XX
045-000-000	01122015	0008954	3280	3284	ENGINE/DRIVABILITY		0.00	61.38	61.38	0.62	SD	01	1	XX



CITY OF NORTH PORT
VEHICLE REPAIR HISTORY REPORT
 FACILITY: 00001

1-32/RRV PAGE: 3
 DATE: 06/14/2017 01:27 p.m.

STARTING VMRS CODE: 000-000-000
 ENDING VMRS CODE: 999-999-999

DATE: FIRST
 DATE: LAST

VEHICLE: 71272
 VEHICLE: 71272

UNIT: 71272	LF MTR: 3893.0		CUR MTR: 3893.0		YR: 07	MAKE: KAISER	DEPT: PW-OPER			SIZE: H	CLASS: EXCAVATO	FUEL: D		
VMRS Code	DATE	WO NUM	LF-UNTS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
045-000-000	12072012	0000335	2240	2235	ENGINE/DRIVABILITY		0.00	0.00	0.00	0.00		01	4	XX
045-011-000	04292015	0009922	3570	3575	VALVE COVER OR GAS		395.31	77.22	472.53	0.78	GS	XX	6	XX
045		TOTAL >	ENGINE/DRIVABILITY				438.57	367.76	806.33					
051		TITLE >	GENERAL ACCESSORIES											
051-000-000	12302016	0017724	3890	3893	GENERAL ACCESSORIE		0.00	148.40	148.40	2.12	GS	01	1	XX
051-000-000	01082016	0013444	3860	3860	GENERAL ACCESSORIE		0.00	0.00	0.00	0.00	GS	XX	1	XX
051-000-000	01082016	0013444	3860	3860	GENERAL ACCESSORIE		0.00	63.05	63.05	0.65	GS	01	1	XX
051-000-000	12072012	0000335	2240	2235	GENERAL ACCESSORIE		0.00	0.00	0.00	0.00		01	4	XX
051		TOTAL >	GENERAL ACCESSORIES				0.00	211.45	211.45					
052		TITLE >	ELECTRICAL ACCESSRES											
052-003-000	10062015	0012208	3670	3667	RADIO		87.48	139.59	227.07	1.41	RP	01	1	XX
052-003-000	07152015	0011022	3670	3667	RADIO		0.00	0.00	0.00	0.00		01	1	XX
052		TOTAL >	ELECTRICAL ACCESSRES				87.48	139.59	227.07					
053		TITLE >	EXPENDABLE ITEMS											
053-000-000	05172016	0015016	3890	3893	EXPENDABLE ITEMS		108.00	0.00	108.00	0.00		01	1	XX
053-000-000	05112016	0014930	3890	3893	EXPENDABLE ITEMS		138.25	0.00	138.25	0.00		01	1	XX
053-000-000	04272016	0014739	3890	3893	EXPENDABLE ITEMS		110.25	0.00	110.25	0.00		01	1	XX
053-000-000	04222016	0014685	3890	3893	EXPENDABLE ITEMS		108.00	0.00	108.00	0.00		01	1	XX
053-000-000	03302016	0014346	3890	3893	EXPENDABLE ITEMS		108.00	0.00	108.00	0.00		01	1	XX
053-000-000	03312016	0014297	3890	3893	EXPENDABLE ITEMS		198.82	0.00	198.82	0.00		01	1	XX
053-000-000	03142016	0014165	3890	3893	EXPENDABLE ITEMS		126.85	0.00	126.85	0.00		01	1	XX
053-000-000	03102016	0014139	3890	3893	EXPENDABLE ITEMS		108.00	0.00	108.00	0.00		01	1	XX
053-000-000	02242016	0013976	3890	3893	EXPENDABLE ITEMS		108.00	0.00	108.00	0.00		01	1	XX
053-000-000	02012016	0013687	3880	3883	EXPENDABLE ITEMS		3.75	0.00	3.75	0.00		01	1	XX
053-000-000	01122016	0013489	3860	3860	EXPENDABLE ITEMS		210.00	0.00	210.00	0.00		01	1	XX
053-000-000	01082016	0013449	3860	3860	EXPENDABLE ITEMS		105.00	0.00	105.00	0.00		01	1	XX
053-000-000	01062016	0013424	3740	3739	EXPENDABLE ITEMS		28.00	0.00	28.00	0.00		01	1	XX
053-000-000	11032015	0012747	3740	3739	EXPENDABLE ITEMS		1.50	0.00	1.50	0.00		01	1	XX
053-000-000	10302015	0012710	3740	3739	EXPENDABLE ITEMS		28.00	0.00	28.00	0.00		01	1	XX
053-000-000	10282015	0012676	3740	3739	EXPENDABLE ITEMS		28.00	0.00	28.00	0.00		01	1	XX
053-000-000	06232015	0011031	3670	3667	EXPENDABLE ITEMS		28.69	0.00	28.69	0.00		01	1	XX
053-000-000	05132015	0010592	3580	3575	EXPENDABLE ITEMS		105.00	0.00	105.00	0.00		01	1	XX
053-000-000	03162015	0009745	3490	3487	EXPENDABLE ITEMS		28.00	0.00	28.00	0.00		01	1	XX
053-000-000	02262015	0009550	3400	3395	EXPENDABLE ITEMS		57.62	0.00	57.62	0.00		01	1	XX
053-000-000	02192015	0009469	3400	3395	EXPENDABLE ITEMS		9.58	0.00	9.58	0.00		01	3	XX



CITY OF NORTH PORT
VEHICLE REPAIR HISTORY REPORT
 FACILITY: 00001

1-32/RRV PAGE: 4
 DATE: 06/14/2017 01:27 p.m.

STARTING VMRS CODE: 000-000-000
 ENDING VMRS CODE: 999-999-999

DATE: FIRST
 DATE: LAST

VEHICLE: 71272
 VEHICLE: 71272

UNIT: 71272	LF MTR: 3893.0		CUR MTR: 3893.0		YR: 07	MAKE: KAISER	DEPT: PW-OPER			SIZE: H	CLASS: EXCAVATO	FUEL: D		
VMRS Code	DATE	WO NUM	LF-UNTS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
053-000-000	02112015	0009379	3400	3395	EXPENDABLE ITEMS		95.20	0.00	95.20	0.00		01	3	XX
053-000-000	01142015	0009049	3280	3284	EXPENDABLE ITEMS		105.00	0.00	105.00	0.00		01	3	XX
053-000-000	01132015	0008919	3280	3284	EXPENDABLE ITEMS		331.87	0.00	331.87	0.00		01	1	XX
053-000-000	12032014	0008611	3140	3138	EXPENDABLE ITEMS		122.62	0.00	122.62	0.00		01	1	XX
053-000-000	11192014	0008410	2970	2972	EXPENDABLE ITEMS		150.62	0.00	150.62	0.00		01	3	XX
053-000-000	11032014	0008263	2970	2972	EXPENDABLE ITEMS		105.00	0.00	105.00	0.00		01	3	XX
053-000-000	10162014	0008072	297200	2972	EXPENDABLE ITEMS		21.10	0.00	21.10	0.00				
053-000-000	07252014	0007011	2840	2842	EXPENDABLE ITEMS		248.21	0.00	248.21	0.00		01	3	XX
053-000-000	06272014	0006691	2840	2842	EXPENDABLE ITEMS		80.00	0.00	80.00	0.00		01	1	XX
053-000-000	06172014	0006588	2830	2828	EXPENDABLE ITEMS		19.95	0.00	19.95	0.00		01	1	XX
053-000-000	06172014	0006573	2830	2828	EXPENDABLE ITEMS		26.13	0.00	26.13	0.00		01	1	XX
053-000-000	06022014	0006424	2800	2802	EXPENDABLE ITEMS		5000.00	0.00	5000.00	0.00		01	1	XX
053-000-000	04242014	0006050	2800	2802	EXPENDABLE ITEMS		35.25	0.00	35.25	0.00		01	3	XX
053-000-000	01282014	0005031	2740	2740	EXPENDABLE ITEMS		5.26	0.00	5.26	0.00		01	3	XX
053-000-000	01272014	0004972	2740	2740	EXPENDABLE ITEMS		105.00	0.00	105.00	0.00		01	3	XX
053-000-000	07162013	0002741	2740	2740	EXPENDABLE ITEMS		27.88	0.00	27.88	0.00		01	3	XX
053-000-000	07032013	0002606	2730	2731	EXPENDABLE ITEMS		250.42	0.00	250.42	0.00		01	1	XX
053-000-000	07012013	0002558	2730	2731	EXPENDABLE ITEMS		105.00	0.00	105.00	0.00		01	3	XX
053-000-000	06142013	0002417	2250	2252	EXPENDABLE ITEMS		105.00	0.00	105.00	0.00		01	3	XX
053-000-000	05132013	0002054	2250	2252	EXPENDABLE ITEMS		31.35	0.00	31.35	0.00		01	3	XX
053-000-000	04302013	0001949	2250	2252	EXPENDABLE ITEMS		520.90	0.00	520.90	0.00		01	3	XX
053-000-000	04052013	0001692	2250	2252	EXPENDABLE ITEMS		28.08	0.00	28.08	0.00		01	3	XX
053-000-000	04032013	0001664	2250	2252	EXPENDABLE ITEMS		1.81	0.00	1.81	0.00		01	3	XX
053-000-000	03152013	0001376	2250	2252	EXPENDABLE ITEMS		27.88	0.00	27.88	0.00		01	3	XX
053-000-000	01182013	0000805	2240	2243	EXPENDABLE ITEMS		122.60	0.00	122.60	0.00		01	3	XX
053-000-000	01032013	0000598	2240	2235	EXPENDABLE ITEMS		210.00	0.00	210.00	0.00		01	11	XX
053-000-000	11202012	0000275	0	0	EXPENDABLE ITEMS		105.00	0.00	105.00	0.00		01	12	XX
053-000-000	11202012	0000290	0	0	EXPENDABLE ITEMS		131.50	0.00	131.50	0.00		01	12	XX
053-000-000	11192012	0000169	0	0	EXPENDABLE ITEMS		12.00	0.00	12.00	0.00		01	1	XX
053		TOTAL >	EXPENDABLE ITEMS				9877.94	0.00	9877.94					
054		TITLE >	HORN AND SIREN											
054-001-000	10052015	0012208	3670	3667	HORN ASSEMBLY		0.00	1.98	1.98	0.02 RP		01	1	XX
054		TOTAL >	HORN AND SIREN				0.00	1.98	1.98					
063		TITLE >	ZONAR											
063-001-000	07152015	0011022	3670	3667	ANTENNA		0.00	0.00	0.00	0.00		01	1	XX
063		TOTAL >	ZONAR				0.00	0.00	0.00					
065		TITLE >	HYDRAULIC SYSTEMS											
065-000-000	10202015	0012536	3740	3739	HYDRAULIC SYSTEMS		588.50	84.15	672.65	0.85 RP		01	1	XX



CITY OF NORTH PORT
VEHICLE REPAIR HISTORY REPORT
 FACILITY: 00001

1-32/RRV PAGE: 5
 DATE: 06/14/2017 01:27 p.m.

STARTING VMRS CODE: 000-000-000
 ENDING VMRS CODE: 999-999-999

DATE: FIRST
 DATE: LAST

VEHICLE: 71272
 VEHICLE: 71272

UNIT: 71272	LF MTR: 3893.0	CUR MTR: 3893.0	YR: 07	MAKE: KAISER	DEPT: PW-OPER	SIZE: H	CLASS: EXCAVATO	FUEL: D						
VMRS Code	DATE	WO NUM	LF-UNTS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
065-000-000	05152015	0009922	3580	3575	HYDRAULIC SYSTEMS		2481.25	316.80	2798.05	3.20	GS	XX	6	XX
065-000-000	03192015	0009817	3490	3487	HYDRAULIC SYSTEMS		26.68	27.72	54.40	0.28	SD	01	1	XX
065-000-000	01122015	0008954	3280	3284	HYDRAULIC SYSTEMS		1269.62	135.63	1405.25	1.37	SD	01	1	XX
065-000-000	12022014	0008571	3140	3138	HYDRAULIC SYSTEMS		0.00	137.61	137.61	1.39	SD	01	6	XX
065-000-000	06272014	0006158	2840	2842	HYDRAULIC SYSTEMS		3088.60	408.00	3496.60	4.08	GS	XX	1	XX
065-000-000	06102014	0006158	2830	2828	HYDRAULIC SYSTEMS		0.00	152.00	152.00	1.52	GS	01	1	XX
065-000-000	07222013	0002600	2740	2740	HYDRAULIC SYSTEMS		563.05	422.73	985.78	4.27	GS	01	1	XX
065-000-000	12072012	0000335	2240	2235	HYDRAULIC SYSTEMS		67.23	269.28	336.51	2.72	GS	01	4	XX
065-001-000	06142016	0015057	3890	3893	HYDRAULIC LEAK		859.35	614.01	1473.36	6.33	RP	01	1	XX
065-001-000	05182016	0015003	3890	3893	HYDRAULIC LEAK		292.70	243.47	536.17	2.51	RP	01	1	XX
065-001-000	04062016	0014317	3890	3893	HYDRAULIC LEAK		497.28	338.53	835.81	3.49	RP	01	1	XX
065-001-000	02022016	0013713	3880	3883	HYDRAULIC LEAK		0.00	0.00	0.00	0.00	GS	XX	1	XX
065-001-000	02022016	0013713	3880	3883	HYDRAULIC LEAK		0.00	50.44	50.44	0.52	GS	01	1	XX
065-001-000	01252016	0013579	3880	3883	HYDRAULIC LEAK		0.00	632.44	632.44	6.52	GS	01	1	XX
065-001-000	10302015	0012702	3740	3739	HYDRAULIC LEAK		191.20	166.32	357.52	1.68	RP	01	6	XX
065-001-000	05182015	0010566	3580	3575	HYDRAULIC LEAK		0.00	252.45	252.45	2.55	GS	01	2	XX
065-001-000	02062014	0004954	2800	2802	HYDRAULIC LEAK		0.00	78.00	78.00	0.78	GS	01	5	XX
065-004-000	04112016	0014317	3890	3893	HYDRAULIC CYLINDER		369.33	249.29	618.62	2.57	RP	01	1	XX
065-004-000	11252015	0012777	3740	3739	HYDRAULIC CYLINDER		1095.45	821.70	1917.15	8.30	DC	01	1	XX
065-004-000	06272014	0006158	2840	2842	HYDRAULIC CYLINDER		389.33	264.00	653.33	2.64	GS	01	1	XX
065-006-000	04202016	0014317	3890	3893	HYD HOSE/FITTINGS		353.26	132.89	486.15	1.37	RP	01	1	XX
065-006-000	01252016	0013579	3880	3883	HYD HOSE/FITTINGS		202.18	1.94	204.12	0.02	GS	XX	1	XX
065-006-000	05182015	0010566	3580	3580	HYD HOSE/FITTINGS		587.02	0.00	587.02	0.00	GS	XX	2	XX
065-006-000	04292015	0009922	3570	3575	HYD HOSE/FITTINGS		94.85	137.61	232.46	1.39	GS	XX	6	XX
065-006-000	04062015	0009922	3490	3487	HYD HOSE/FITTINGS		0.00	126.72	126.72	1.28	GS	01	6	XX
065-006-000	12022014	0008571	3140	3138	HYD HOSE/FITTINGS		112.06	121.77	233.83	1.23	SD	XX	6	XX
065-006-000	06272014	0006741	2840	2842	HYD HOSE/FITTINGS		24.40	40.00	64.40	0.40	GS	01	1	XX
065-006-000	03272013	0001514	2250	2252	HYD HOSE/FITTINGS		42.60	59.50	102.10	0.50	GS	01	2	XX
065-015-000	04012013	0001171	2250	2252	HYDRAULIC PUMP		263.57	158.40	421.97	1.60	SD	XX	2	XX
065		TOTAL >			HYDRAULIC SYSTEMS		13459.51	6443.40	19902.91					
066		TITLE >			PREVENTIVE MAINTENAN									
066-000-000	04292015	0009922	3570	3575	PREVENTIVE MAINTEN		154.96	333.63	488.59	3.37	GS	XX	6	XX
066-001-000	04112016	0014317	3890	3893	PM-A		147.08	326.89	473.97	3.37	RP	01	1	XX
066-001-000	10072015	0012208	3670	3667	PM-A		151.90	135.63	287.53	1.37	RP	01	1	XX
066-001-000	04202015	0009922	3490	3487	PM-A		0.00	0.00	0.00	0.00		01	6	XX
066-001-000	01122015	0008954	3280	3284	PM-A		152.54	135.63	288.17	1.37	SD	01	1	XX
066-001-000	08192014	0007172	2970	2972	PM-A		148.85	155.00	303.85	1.55	SD	01	5	XX



CITY OF NORTH PORT
VEHICLE REPAIR HISTORY REPORT
 FACILITY: 00001

1-32/RRV PAGE: 6
 DATE: 06/14/2017 01:27 p.m.

STARTING VMRS CODE: 000-000-000
 ENDING VMRS CODE: 999-999-999

DATE: FIRST
 DATE: LAST

VEHICLE:: 71272
 VEHICLE: 71272

UNIT: 71272	LF MTR: 3893.0	CUR MTR: 3893.0	YR: 07	MAKE: KAISER	DEPT: PW-OPER	SIZE: H	CLASS: EXCAVATO	FUEL: D						
VMRS Code	DATE	WO NUM	LF-UNTS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
066-001-000	02062014	0004954	2800	2802	PM-A		150.75	145.00	295.75	1.45	GS	01	5	XX
066-001-000	07222013	0002600	2740	2740	PM-A		295.08	236.61	531.69	2.39	GS	01	1	XX
066-001-000	12072012	0000335	2240	2235	PM-A		0.00	59.70	59.70	0.30	GS	01	4	
066		TOTAL >	PREVENTIVE MAINTENAN				1201.16	1528.09	2729.25					
068		TITLE >	PREP FOR AUCTION											
068-000-000	07262016	0015541	3890	3893	PREP FOR AUCTION		0.00	129.01	129.01	1.33	GS	01	1	XX
068		TOTAL >	PREP FOR AUCTION				0.00	129.01	129.01					
071		TITLE >	BODY											
071-000-000	02102016	0013800	3890	3893	BODY		0.00	41.71	41.71	0.43	RP	01	1	XX
071-000-000	04292015	0009922	3570	3575	BODY		1255.20	756.36	2011.56	7.64	GS	XX	6	XX
071-000-000	04292015	0009922	3570	3575	BODY		0.00	385.11	385.11	3.89	GS	XX	6	XX
071-000-000	07082013	0002600	2740	2740	BODY		0.00	120.78	120.78	1.22	GS	01	1	XX
071-000-000	02132013	0000934	2240	2243	BODY		1288.25	307.78	1596.03	2.74	SD	XX	2	XX
071-000-000	02072013	0000934	2240	2243	BODY		0.00	264.53	264.53	2.47	SD	01	2	XX
071		TOTAL >	BODY				2543.45	1876.27	4419.72					
079		TITLE >	SAFETY DEVICES											
079-005-000	01082015	0008954	3140	3138	DECALS		12.37	52.47	64.84	0.53	SD	XX	1	XX
079-005-000	02132013	0000934	2240	2243	DECALS		24.75	210.87	235.62	2.13	SD	XX	2	XX
079		TOTAL >	SAFETY DEVICES				37.12	263.34	300.46					
082		TITLE >	WELD											
082-000-000	12072012	0000335	2240	2235	WELD		0.00	0.00	0.00	0.00		01	4	XX
082		TOTAL >	WELD				0.00	0.00	0.00					
100		TITLE >	OUTSOURCE											
100-000-000	06252015	0011112	3670	3667	OUTSOURCE	OUT	95.00	0.00	95.00	0.00		01	1	XX
100-000-000	01022015	0008692	3140	3138	OUTSOURCE	OUT	0.00	0.00	0.00	0.00		01	6	XX
100-000-000	01022015	0008692	3140	3138	OUTSOURCE		2969.71	0.00	2969.71	0.00		01	6	
100-000-000	05122014	0006228	2800	2802	OUTSOURCE	OUT	11726.37	0.00	11726.37	0.00		01	1	XX
100-000-000	10252013	0003999	2740	2740	OUTSOURCE	OUT	68.00	0.00	68.00	0.00		XX	1	XX
100-000-000	01172013	0000816	2240	2243	OUTSOURCE	OUT	9040.00	0.00	9040.00	0.00		01	1	XX
100		TOTAL >	OUTSOURCE				23899.08	0.00	23899.08					
102		TITLE >	WASH AND OR CLEAN V											
102-000-000	01122015	0008954	3280	3284	WASH AND OR CLEAN		0.00	237.60	237.60	2.40	SD	XX	1	XX



CITY OF NORTH PORT
VEHICLE REPAIR HISTORY REPORT
FACILITY: 00001

1-32/RRV PAGE: 7
DATE: 06/14/2017 01:27 p.m.

STARTING VMRS CODE: 000-000-000
ENDING VMRS CODE: 999-999-999

DATE: FIRST
DATE: LAST

VEHICLE:: 71272
VEHICLE: 71272

UNIT: 71272		LF MTR: 3893.0		CUR MTR: 3893.0		YR: 07		MAKE: KAISER		DEPT: PW-OPER		SIZE: H		CLASS: EXCAVATO		FUEL: D	
VMRS Code	DATE	WO NUM	LF-UNTS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA			
102		TOTAL >	WASH AND OR CLEAN V				0.00	237.60	237.60								
701		TITLE >	LAWN CARE EQUIPMENT														
701-000-000	01312013	0000792	2240	2243	LAWN CARE EQUIPMEN		226.91	242.75	469.66	2.25	GS		01	10	XX		
701-001-000	04012013	0001171	2250	2252	DECK		83.27	332.89	416.16	3.11	SD		01	2	XX		
701-002-000	01082015	0008954	3140	3138	SPINDLE		0.00	62.37	62.37	0.63	SD		01	1	XX		
701-003-000	01122015	0008954	3140	3138	BLADE		947.67	369.27	1316.94	3.73	SD		01	1	XX		
701		TOTAL >	LAWN CARE EQUIPMENT				1257.85	1007.28	2265.13								
999		TITLE >	OLD HISTORY														
999-000-000	11302012	QSYSTEM	0	0	OLD HISTORY	OUT	23112.18	0.00	23112.18	0.00			XX	XX	XX		
999-000-000	11302012	QSYSTEM	0	0	OLD HISTORY		26292.20	3998.50	30290.70	41.00			XX	XX	XX		
999		TOTAL >	OLD HISTORY				49404.38	3998.50	53402.88								



CITY OF NORTH PORT
VEHICLE REPAIR HISTORY REPORT
FACILITY: 00001

1-32/RRV PAGE: 8
DATE: 06/14/2017 01:27 p.m.

STARTING VMRS CODE: 000-000-000
ENDING VMRS CODE: 999-999-999

DATE: FIRST
DATE: LAST

VEHICLE:: 71272
VEHICLE: 71272

METER: STANDARD			SUBTOTALS OF VMRS CODES FOR DIVISION > AL			PERIOD: LIFE		
VMRS CODE	QUANTITY	LABOR HRS	LABOR COST	PARTS COST	TOTAL COST	PERCENT	TOT COST /METER	
001 A/C, HEAT, VENTILATION	3	14.2	1430.16	1052.25	2482.41	1.70%	0.63766	
002 CAB/SHEET METALS	1	0.0	1.98	0.00	1.98	0.00%	0.00051	
003 INSTRUMENTS,GAUGES	3	3.4	338.58	29.28	367.86	0.30%	0.09449	
015 STEERING	1	4.3	425.83	1274.00	1699.83	1.20%	0.43664	
017 TIRES	3	0.0	0.00	9077.95	9077.95	6.40%	2.33186	
018 WHEELS,RIMS,HUBS,BEARI	1	3.0	297.79	0.00	297.79	0.20%	0.07649	
032 CRANKING SYSTEM	3	1.9	140.00	285.92	425.92	0.30%	0.10941	
034 LIGHTING SYSTEM	3	3.4	342.54	259.98	602.52	0.40%	0.15477	
042 COOLING SYSTEM	13	20.1	2024.21	2686.29	4710.50	3.30%	1.20999	
043 EXHAUST SYSTEM	3	6.3	623.59	3057.47	3681.06	2.60%	0.94556	
044 FUEL SYSTEM	3	2.1	174.18	334.40	508.58	0.40%	0.13064	
045 ENGINE/DRIVABILITY	7	4.0	367.76	438.57	806.33	0.60%	0.20712	
051 GENERALACCESSORIES	4	2.7	211.45	0.00	211.45	0.10%	0.05432	
052 ELECTRICAL ACCESSRES	2	1.4	139.59	87.48	227.07	0.20%	0.05833	
053 EXPENDABLE ITEMS	50	0.0	0.00	9877.94	9877.94	6.90%	2.53736	
054 HORN AND SIREN	1	0.0	1.98	0.00	1.98	0.00%	0.00051	
063 ZONAR	1	0.0	0.00	0.00	0.00	0.00%	0.00000	
065 HYDRAULIC SYSTEMS	30	64.1	6443.40	13459.51	19902.91	14.00%	5.11249	
066 PREVENTIVE MAINTENANCE	9	14.7	1528.09	1201.16	2729.25	1.90%	0.70107	
068 PREP FOR AUCTION	1	1.3	129.01	0.00	129.01	0.10%	0.03314	
071 BODY	6	18.1	1876.27	2543.45	4419.72	3.10%	1.13530	
079 SAFETY DEVICES	2	2.6	263.34	37.12	300.46	0.20%	0.07718	
082 WELD	1	0.0	0.00	0.00	0.00	0.00%	0.00000	
100 OUTSOURCE	6	0.0	0.00	23899.08	23899.08	16.80%	6.13899	
102 WASH AND OR CLEAN VEH	1	2.4	237.60	0.00	237.60	0.20%	0.06103	
701 LAWN CARE EQUIPMENT	4	9.6	1007.28	1257.85	2265.13	1.60%	0.58185	
999 OLD HISTORY	2	41.0	3998.50	49404.38	53402.88	37.50%	13.71767	
TOTALS:	164	220.6	22003.13	120264.08	TOT: 142267.21	100%	36.54438	

- 9077.95 Tires
- 2729.25 Pm

\$130,460.01 Total

EQUIPMENT & FLEET VEHICLE REPLACEMENT SCORE SHEET**PW Operations & Maintenance**

																	As of 6/14/17		
CID #	Equip/Veh Description	Purchase or Model Year	Purchase Cost excluding trade value	Current Mileage or Hours	Life Cycle					Miles or Hours		Service Type	Reliability	Life-To-Date M&R Costs (minus tires & PM)			Condition	Total Points	Grade
					Useful Life years	Miles or Hours	Current Life	Remaining Life (see note)	Score	10k = 1 Pt Round to nearest whole number	750 hrs = 1 Pt			\$ Expended		≥ 100% Veh Cost = 5 Pts 75%-99% Veh Cost = 4 Pts 50%-74% Veh Cost = 3 Pts 25%-49% Veh Cost = 2 Pts ≤ 24% Veh Cost = 1 Pt			
70403	Gradall Excav	2004	\$186,683	7,084 hrs	7		13		10		9	3	1	\$122,610	66%	3	4	30	Replacement Qualified



CITY OF NORTH PORT
VEHICLE REPAIR HISTORY REPORT
FACILITY: 00001

1-32/RRV PAGE: 1
DATE: 06/14/2017 01:36 p.m.

Telescopic
Excavator
(Gradall)

STARTING VMRS CODE: 000-000-000
ENDING VMRS CODE: 999-999-999

DATE: FIRST
DATE: LAST

VEHICLE: 70403
VEHICLE: 70403

UNIT: 70403	LF MTR: 7556.0		CUR MTR: 7556.0		YR: 04	MAKE: GRADALL	DEPT: PW-OPER		SIZE: H	CLASS: EXCAVATO	FUEL: D	
VMRS Code	DATE	WO NUM	LF-UNTS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC RC WA
001		TITLE >	A/C, HEAT, VENTILATI									
001-000-000	06132017	0019680	7550	7556	A/C, HEAT, VENTILA		10.14	323.40	333.54	4.62	GS	XX 1 XX
001-000-000	06142017	0019680	7560	7556	A/C, HEAT, VENTILA		178.58	313.60	492.18	4.48	GS	XX 1 XX
001-000-000	06132017	0019680	7550	7556	A/C, HEAT, VENTILA		0.00	218.40	218.40	3.12	GS	01 1 XX
001-000-000	10272014	0007972	6750	6751	A/C, HEAT, VENTILA		615.50	186.12	801.62	1.88	GS	XX 1 XX
001-000-000	10272014	0007972	6750	6751	A/C, HEAT, VENTILA		0.00	562.32	562.32	5.68	GS	01 1 XX
001-000-000	10082014	0007911	6740	6744	A/C, HEAT, VENTILA		26.10	0.00	26.10	0.00	SD	XX 1 XX
001-000-000	10032014	0007911	6740	6744	A/C, HEAT, VENTILA		0.00	145.00	145.00	1.45	SD	01 1 XX
001-000-000	06212013	0002524	5770	5771	A/C, HEAT, VENTILA		0.00	29.70	29.70	0.30	GS	01 1 XX
001		TOTAL >	A/C, HEAT, VENTILATI			830.32	1778.54	2608.86				
002		TITLE >	CAB/SHEET METALS									
002-000-000	04102013	0001393	5600	5602	CAB/SHEET METALS		24.75	24.75	49.50	0.25	SD	XX 4 XX
002-006-000	09102015	0011786	6810	6814	HOOD LATCH		402.40	46.53	448.93	0.47	SD	01 1 XX
002-006-000	07172015	0011017	6810	6814	HOOD LATCH		0.00	1.98	1.98	0.02	SD	01 1 XX
002-015-000	05222014	0006277	6510	6512	DOOR CAB		0.00	25.00	25.00	0.25	SD	01 5 XX
002-025-000	07012014	0006491	6580	6581	DOOR LATCH ASSY		110.60	47.00	157.60	0.47	SD	01 1 XX
002-062-000	02262015	0009075	6810	6814	WINDSHIELD		0.00	110.88	110.88	1.12	SC	01 5 XX
002		TOTAL >	CAB/SHEET METALS			537.75	256.14	793.89				
003		TITLE >	INSTRUMENTS,GAUGES									
003-002-000	09022015	0011786	6810	6814	GUAGE ANY		0.00	34.65	34.65	0.35	SD	XX 1 XX
003-012-000	02262015	0009075	6810	6814	WARNING LIGHT		0.00	37.62	37.62	0.38	SC	01 5 XX
003		TOTAL >	INSTRUMENTS,GAUGES			0.00	72.27	72.27				
013		TITLE >	BRAKES									
013-009-000	04102013	0001393	5600	5602	AIR DRYER		81.69	91.08	172.77	0.92	SD	XX 4 XX
013		TOTAL >	BRAKES			81.69	91.08	172.77				
016		TITLE >	SUSPENSION									
016-000-000	10242013	0003020	6060	6060	SUSPENSION		0.00	495.00	495.00	4.95	GS	XX 5 XX
016		TOTAL >	SUSPENSION			0.00	495.00	495.00				
017		TITLE >	TIRES									
017-000-000	05222017	0019568	7360	7360	TIRES		2818.26	0.00	2818.26	0.00		01 1 XX
017-002-000	04102013	0001393	5600	5602	TIRE REPLACE		5382.37	0.00	5382.37	0.00		01 4 XX
017		TOTAL >	TIRES			8200.63	0.00	8200.63				
019		TITLE >	AUTOMATIC CHAS. LUB									
019-002-000	04212016	0014332	7000	6999	GREASE PUMP-AUTO L		0.00	74.69	74.69	0.77	GS	XX 1 XX



CITY OF NORTH PORT
VEHICLE REPAIR HISTORY REPORT
 FACILITY: 00001

1-32/RRV PAGE: 2
 DATE: 06/14/2017 01:36 p.m.

STARTING VMRS CODE: 000-000-000
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VEHICLE: 70403
 VEHICLE: 70403

UNIT: 70403	LF MTR: 7556.0		CUR MTR: 7556.0		YR: 04	MAKE: GRADALL	DEPT: PW-OPER		SIZE: H	CLASS: EXCAVATO	FUEL: D			
VMRS Code	DATE	WO NUM	LF-UNTS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
019		TOTAL >	AUTOMATIC CHAS. LUB				0.00	74.69	74.69					
022		TITLE >	AXLE DRVN REAR											
022-000-000	06202014	0006652	6580	6577	AXLE DRVN REAR.		0.00	0.00	0.00	0.00	SD		XX 6	XX
022		TOTAL >	AXLE DRVN REAR				0.00	0.00	0.00					
023		TITLE >	CLUTCH											
023-000-000	11202015	0012968	6880	6878	CLUTCH		0.00	37.62	37.62	0.38	SD		01 1	XX
023-000-000	03212013	0001393	5600	5602	CLUTCH		0.00	37.62	37.62	0.38	SD		XX 4	XX
023-013-000	10222015	0012292	6810	6814	CLUTCH BLEED HYD S		977.15	192.06	1169.21	1.94	RP		XX 1	XX
023		TOTAL >	CLUTCH				977.15	267.30	1244.45					
032		TITLE >	CRANKING SYSTEM											
032-000-000	102012016	0013706	6920	6920	CRANKING SYSTEM		0.00	118.34	118.34	1.22	SD		01 1	XX
032-000-000	10112013	0003804	6050	6046	CRANKING SYSTEM		0.00	122.00	122.00	1.22	SD		01 6	XX
032		TOTAL >	CRANKING SYSTEM				0.00	240.34	240.34					
034		TITLE >	LIGHTING SYSTEM											
034-000-000	05012017	0017632	7360	7360	LIGHTING SYSTEM		3.70	67.90	71.60	0.97	DC		XX 1	XX
034-000-000	04222016	0014332	7010	7006	LIGHTING SYSTEM		6.15	75.66	81.81	0.78	GS		XX 1	XX
034-000-000	04222016	0014332	7000	7006	LIGHTING SYSTEM		0.00	113.49	113.49	1.17	GS		XX 1	XX
034-000-000	11082013	0003020	6060	6060	LIGHTING SYSTEM		1880.14	57.00	1937.14	0.57	GS		XX 5	XX
034-013-000	12092014	0008568	6760	6762	FLASHER		182.82	67.32	250.14	0.68	SD		XX 1	XX
034		TOTAL >	LIGHTING SYSTEM				2072.81	381.37	2454.18					
042		TITLE >	COOLING SYSTEM											
042-000-000	07112014	0006878	6510	6610	COOLING SYSTEM		0.00	180.00	180.00	1.80	GS		01 6	XX
042-000-000	05192014	0006303	6510	6507	COOLING SYSTEM		0.00	98.00	98.00	0.98	SD		01 6	XX
042-017-000	07012014	0006491	6580	6581	RADIATOR		3054.80	291.00	3345.80	2.91	SD		01 1	XX
042-017-000	05222014	0006277	6510	6512	RADIATOR		0.00	0.00	0.00	0.00	SD		XX 5	XX
042		TOTAL >	COOLING SYSTEM				3054.80	569.00	3623.80					
044		TITLE >	FUEL SYSTEM											
044-000-000	10132015	0012292	6810	6814	FUEL SYSTEM		80.45	383.13	463.58	3.87	RP		01 1	XX
044-000-000	09022015	0011786	6810	6814	FUEL SYSTEM		0.00	0.00	0.00	0.00	SD		01 1	XX
044-000-000	07162015	0011017	6810	6814	FUEL SYSTEM		0.00	42.57	42.57	0.43	SD		01 1	XX
044-000-000	10112013	0003804	6050	6046	FUEL SYSTEM		0.00	2.00	2.00	0.02	SD		XX 6	XX
044-035-000	11192015	0012879	6880	6878	FUEL LINE RETURN F		68.02	135.63	203.65	1.37	SD		XX 1	XX



CITY OF NORTH PORT
VEHICLE REPAIR HISTORY REPORT
 FACILITY: 00001

1-32/RRV PAGE: 3
 DATE: 06/14/2017 01:36 p.m.

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VEHICLE: 70403
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UNIT: 70403	LF MTR: 7556.0		CUR MTR: 7556.0		YR: 04	MAKE: GRADALL	DEPT: PW-OPER		SIZE: H	CLASS: EXCAVATO	FUEL: D
VMRS Code	DATE	WO NUM	LF-UNTS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS MECHANIC	CC RC WA
044		TOTAL >	FUEL SYSTEM				148.47	563.33	711.80		
045		TITLE >	ENGINE/DRIVABILITY								
045-000-000	03032017	0018566	7360	7360	ENGINE/DRIVABILITY		39.77	137.90	177.67	1.97 RB	01 6 XX
045-000-000	09272016	0016562	7080	7084	ENGINE/DRIVABILITY		0.00	446.20	446.20	4.60 DC	01 1 XX
045-000-000	05062016	0014875	7010	7006	ENGINE/DRIVABILITY		0.00	45.59	45.59	0.47 SD	01 1 XX
045-000-000	03242016	0014272	7000	6999	ENGINE/DRIVABILITY		0.00	99.91	99.91	1.03 SD	01 1 XX
045-000-000	11192015	0012879	6880	6878	ENGINE/DRIVABILITY		0.00	122.76	122.76	1.24 SD	01 1 XX
045-000-000	11182015	0012879	6810	6814	ENGINE/DRIVABILITY		0.00	56.43	56.43	0.57 RP	01 1 XX
045-000-000	06192013	0002300	5610	5608	ENGINE/DRIVABILITY		0.00	0.00	0.00	0.00	01 1 XX
045		TOTAL >	ENGINE/DRIVABILITY				39.77	908.79	948.56		
051		TITLE >	GENERAL ACCESSORIES								
051-000-000	01272016	0013129	6920	6916	GENERAL ACCESSORIE		668.67	1.94	670.61	0.02 GS	XX 1 XX
051-000-000	01202016	0013129	6910	6916	GENERAL ACCESSORIE		0.00	284.87	284.87	2.92 GS	01 1 XX
051		TOTAL >	GENERAL ACCESSORIES				668.67	286.81	955.48		
052		TITLE >	ELECTRICAL ACCESSRES								
052-000-000	09022015	0011786	6810	6814	ELECTRICAL ACCESSR		107.55	32.67	140.22	0.33 SD	01 1 XX
052		TOTAL >	ELECTRICAL ACCESSRES				107.55	32.67	140.22		
053		TITLE >	EXPENDABLE ITEMS								
053-000-000	03172017	0018721	7360	7360	EXPENDABLE ITEMS		15.08	0.00	15.08	0.00	01 1 XX
053-000-000	08182015	0011692	6810	6814	EXPENDABLE ITEMS		33.75	0.00	33.75	0.00	01 1 XX
053-000-000	07222014	0006961	6610	6610	EXPENDABLE ITEMS		1.98	0.00	1.98	0.00	01 3 XX
053-000-000	07092014	0006814	6580	6581	EXPENDABLE ITEMS		9.80	0.00	9.80	0.00	01 1 XX
053		TOTAL >	EXPENDABLE ITEMS				60.61	0.00	60.61		
065		TITLE >	HYDRAULIC SYSTEMS								
065-000-000	02262015	0009075	6810	6814	HYDRAULIC SYSTEMS		0.00	189.09	189.09	1.91 SC	01 5 XX
065-000-000	12222014	0008817	6770	6776	HYDRAULIC SYSTEMS		19.71	42.57	62.28	0.43 GS	01 1 XX
065-000-000	12172014	0008568	6760	6762	HYDRAULIC SYSTEMS		21.50	190.08	211.58	1.92 SD	01 1 XX
065-000-000	11172014	0008357	6760	6760	HYDRAULIC SYSTEMS		140.40	76.23	216.63	0.77 GS	XX 6 XX
065-000-000	11172014	0008357	6760	6760	HYDRAULIC SYSTEMS		0.00	91.08	91.08	0.92 GS	01 6 XX
065-000-000	09172014	0007357	6730	6728	HYDRAULIC SYSTEMS		1022.32	308.00	1330.32	3.08 SD	XX 4 XX
065-000-000	04162014	0005944	6430	6429	HYDRAULIC SYSTEMS		0.00	100.00	100.00	1.00 SD	XX 6 XX
065-000-000	04112014	0005892	6420	6419	HYDRAULIC SYSTEMS		0.00	100.00	100.00	1.00 GS	01 6 XX
065-000-000	03282013	0001613	5600	5602	HYDRAULIC SYSTEMS		0.00	0.00	0.00	0.00	01 2 XX



CITY OF NORTH PORT
VEHICLE REPAIR HISTORY REPORT
 FACILITY: 00001

1-32/RRV PAGE: 4
 DATE: 06/14/2017 01:36 p.m.

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VEHICLE:: 70403
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UNIT: 70403	LF MTR: 7556.0		CUR MTR: 7556.0		YR: 04	MAKE: GRADALL	DEPT: PW-OPER		SIZE: H	CLASS: EXCAVATO	FUEL: D			
VMRS Code	DATE	WO NUM	LF-UNTS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
065-000-000	03252013	0001393	5600	5602	HYDRAULIC SYSTEMS		0.00	122.76	122.76	1.24	SD	01	4	XX
065-001-000	03222017	0018783	7360	7360	HYDRAULIC LEAK		0.00	87.50	87.50	1.25	DC	01	5	XX
065-001-000	01112017	0017927	7080	7084	HYDRAULIC LEAK		0.00	0.00	0.00	0.00	RB	01	6	XX
065-001-000	11292016	0017466	7080	7084	HYDRAULIC LEAK		0.00	101.50	101.50	1.45	DC	01	3	XX
065-001-000	06242016	0015431	7080	7084	HYDRAULIC LEAK		0.00	194.00	194.00	2.00	SD	01	1	XX
065-001-000	05062016	0014875	7010	7006	HYDRAULIC LEAK		0.00	19.40	19.40	0.20	SD	01	1	XX
065-001-000	07172015	0011017	6810	6814	HYDRAULIC LEAK		0.00	75.24	75.24	0.76	SD	01	1	XX
065-001-000	09092014	0007357	6720	6728	HYDRAULIC LEAK		0.00	39.00	39.00	0.39	SD	01	4	XX
065-001-000	05052014	0006097	6430	6429	HYDRAULIC LEAK		0.00	200.00	200.00	2.00	GS	01	6	XX
065-001-000	04162014	0005944	6430	6429	HYDRAULIC LEAK		0.00	5.00	5.00	0.05	SD	01	6	XX
065-001-000	07242013	0002781	5830	5829	HYDRAULIC LEAK		827.65	46.53	874.18	0.47	SD	01	2	XX
065-001-000	05022013	0001752	5610	5608	HYDRAULIC LEAK		589.66	275.22	864.88	2.78	SD	01	4	XX
065-001-000	04252013	0001735	5610	5608	HYDRAULIC LEAK		6.25	166.32	172.57	1.68	SD	01	2	XX
065-004-000	04102013	0001393	5600	5602	HYDRAULIC CYLINDER		1084.96	431.64	1516.60	4.36	SD	XX	4	XX
065-004-000	04102013	0001393	5600	5602	HYDRAULIC CYLINDER		603.64	179.19	782.83	1.81	SD	XX	4	XX
065-006-000	05102016	0014875	7020	7029	HYD HOSE/FITTINGS		7.80	227.95	235.75	2.35	SD	XX	1	XX
065-006-000	12222014	0008817	6780	6776	HYD HOSE/FITTINGS		0.00	153.45	153.45	1.55	GS	XX	1	XX
065-006-000	07192013	0002781	5820	5829	HYD HOSE/FITTINGS		0.00	217.80	217.80	2.20	SD	XX	2	XX
065-006-000	04102013	0001393	5600	5602	HYD HOSE/FITTINGS		1663.45	460.35	2123.80	4.65	SD	XX	4	XX
065		TOTAL >			HYDRAULIC SYSTEMS		5987.34	4099.90	10087.24					
066		TITLE >			PREVENTIVE MAINTENAN									
066-001-000	04282017	0017632	7360	7360	PM-A		142.40	242.20	384.60	3.46	DC	01	1	XX
066-001-000	04202016	0014332	7000	6999	PM-A		172.50	237.65	410.15	2.45	GS	01	1	XX
066-001-000	09022015	0011786	6810	6814	PM-A		0.00	42.57	42.57	0.43	SD	XX	1	XX
066-001-000	09022015	0011786	6810	6814	PM-A		168.34	156.42	324.76	1.58	SD	01	1	XX
066-001-000	02262015	0009075	6810	6814	PM-A		173.89	118.80	292.69	1.20	SC	01	5	XX
066-001-000	07012014	0006277	6580	6581	PM-A		179.28	232.00	411.28	2.32	SD	01	5	XX
066-001-000	11082013	0003020	6060	6060	PM-A		172.75	197.00	369.75	1.97	GS	01	5	XX
066-001-000	03272013	0001393	5600	5602	PM-A		0.00	71.28	71.28	0.72	SD	XX	4	XX
066-001-000	04102013	0001393	5600	5602	PM-A		210.25	374.22	584.47	3.78	SD	01	4	XX
066		TOTAL >			PREVENTIVE MAINTENAN		1219.41	1672.14	2891.55					
071		TITLE >			BODY									
071-000-000	10152015	0012292	6810	6814	BODY		5367.32	366.30	5733.62	3.70	RP	01	1	XX
071-000-000	07012014	0006491	6580	6581	BODY		706.58	341.00	1047.58	3.41	SD	01	1	XX
071-000-000	06202014	0006652	6580	6577	BODY		0.00	203.00	203.00	2.03	SD	01	6	XX
071-000-000	05222014	0006277	6510	6512	BODY		0.00	3.00	3.00	0.03	SD	01	5	XX



CITY OF NORTH PORT
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 FACILITY: 00001

1-32/RRV PAGE: 5
 DATE: 06/14/2017 01:36 p.m.

STARTING VMRS CODE: 000-000-000
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UNIT: 70403	LF MTR: 7556.0		CUR MTR: 7556.0		YR: 04	MAKE: GRADALL	DEPT: PW-OPER		SIZE: H	CLASS: EXCAVATO	FUEL: D	
VMRS Code	DATE	WO NUM	LF-UNTS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC RC WA
071		TOTAL >	BODY				6073.90	913.30	6987.20			
077		TITLE >	FRAME AND SUPPORT									
077-000-000	11302012	0000374	5380	5375	FRAME AND SUPPORT		0.00	39.60	39.60	0.40	GS	01 1 XX
077		TOTAL >	FRAME AND SUPPORT				0.00	39.60	39.60			
082		TITLE >	WELD									
082-000-000	12022013	0004386	6120	6123	WELD		0.00	47.00	47.00	0.47	SD	01 1 XX
082		TOTAL >	WELD				0.00	47.00	47.00			
083		TITLE >	FABRICATE									
083-000-000	04182013	0001752	5610	5608	FABRICATE		0.00	178.20	178.20	1.80	SD	XX 4 XX
083		TOTAL >	FABRICATE				0.00	178.20	178.20			
099		TITLE >	ROAD CALL TRAVEL TIM									
099-000-000	11302012	0000374	5380	5375	ROAD CALL TRAVEL T		25.00	49.50	74.50	0.50	GS	01 1 XX
099		TOTAL >	ROAD CALL TRAVEL TIM				25.00	49.50	74.50			
100		TITLE >	OUTSOURCE									
100-000-000	01052017	0018197	7080	7084	OUTSOURCE	OUT	1486.82	0.00	1486.82	0.00		01 1 XX
100-000-000	01192016	0013736	6920	6920	OUTSOURCE	OUT	5004.78	0.00	5004.78	0.00		01 1 XX
100-000-000	08132015	0011654	6810	6814	OUTSOURCE	OUT	3533.51	0.00	3533.51	0.00		01 1 XX
100-000-000	01122015	0009211	6810	6814	OUTSOURCE	OUT	415.38	0.00	415.38	0.00		01 1 XX
100-000-000	09242014	0007882	6730	6728	OUTSOURCE	OUT	3547.78	0.00	3547.78	0.00		01 1 XX
100-000-000	03312014	0005725	6120	6123	OUTSOURCE	OUT	3463.46	0.00	3463.46	0.00		01 1 XX
100		TOTAL >	OUTSOURCE				17451.73	0.00	17451.73			
102		TITLE >	WASH AND OR CLEAN V									
102-000-000	07192013	0002781	5830	5829	WASH AND OR CLEAN		0.00	47.52	47.52	0.48	SD	XX 2 XX
102		TOTAL >	WASH AND OR CLEAN V				0.00	47.52	47.52			
701		TITLE >	LAWN CARE EQUIPMENT									
701-000-000	06192013	0002330	5610	5608	LAWN CARE EQUIPMEN		0.00	0.00	0.00	0.00		XX 4 XX
701		TOTAL >	LAWN CARE EQUIPMENT				0.00	0.00	0.00			
999		TITLE >	OLD HISTORY									
999-000-000	11302012	QSYSTEM	0	0	OLD HISTORY	OUT	1116.71	0.00	1116.71	0.00		XX XX XX
999-000-000	11302012	QSYSTEM	0	0	OLD HISTORY		52996.78	18986.63	71983.41	236.25		XX XX XX
999		TOTAL >	OLD HISTORY				54113.49	18986.63	73100.12			



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1-32/RRV PAGE: 6
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VEHICLE:: 70403
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METER: STANDARD			SUBTOTALS OF VMRS CODES FOR DIVISION > AL			PERIOD: LIFE		
VMRS CODE		QUANTITY	LABOR HRS	LABOR COST	PARTS COST	TOTAL COST	PERCENT	TOT COST /METER
001	A/C, HEAT, VENTILATION	8	21.2	1778.54	830.32	2608.86	2.00%	0.34527
002	CAB/SHEET METALS	6	2.3	256.14	537.75	793.89	0.60%	0.10507
003	INSTRUMENTS,GAUGES	2	0.6	72.27	0.00	72.27	0.10%	0.00956
013	BRAKES	1	0.9	91.08	81.69	172.77	0.10%	0.02287
016	SUSPENSION	1	4.9	495.00	0.00	495.00	0.40%	0.06551
017	TIRES	2	0.0	0.00	8200.63	8200.63	6.10%	1.08531
019	AUTOMATIC CHAS. LUB	1	0.7	74.69	0.00	74.69	0.10%	0.00988
022	AXLE DRVN REAR	1	0.0	0.00	0.00	0.00	0.00%	0.00000
023	CLUTCH	3	2.5	267.30	977.15	1244.45	0.90%	0.16470
032	CRANKING SYSTEM	2	2.4	240.34	0.00	240.34	0.20%	0.03181
034	LIGHTING SYSTEM	5	3.8	381.37	2072.81	2454.18	1.80%	0.32480
042	COOLING SYSTEM	4	5.6	569.00	3054.80	3623.80	2.70%	0.47959
044	FUEL SYSTEM	5	5.5	563.33	148.47	711.80	0.50%	0.09420
045	ENGINE/DRIVABILITY	7	9.6	908.79	39.77	948.56	0.70%	0.12554
051	GENERAL ACCESSORIES	2	2.9	286.81	668.67	955.48	0.70%	0.12645
052	ELECTRICAL ACCESSRES	1	0.3	32.67	107.55	140.22	0.10%	0.01856
053	EXPENDABLE ITEMS	4	0.0	0.00	60.61	60.61	0.00%	0.00802
065	HYDRAULIC SYSTEMS	28	41.2	4099.90	5987.34	10087.24	7.50%	1.33500
066	PREVENTIVE MAINTENANCE	9	17.5	1672.14	1219.41	2891.55	2.20%	0.38268
071	BODY	4	9.1	913.30	6073.90	6987.20	5.20%	0.92472
077	FRAME AND SUPPORT	1	0.4	39.60	0.00	39.60	0.00%	0.00524
082	WELD	1	0.4	47.00	0.00	47.00	0.00%	0.00622
083	FABRICATE	1	1.8	178.20	0.00	178.20	0.10%	0.02358
099	ROAD CALL TRAVEL TIME	1	0.5	49.50	25.00	74.50	0.10%	0.00986
100	OUTSOURCE	6	0.0	0.00	17451.73	17451.73	13.10%	2.30965
102	WASH AND OR CLEAN VEH	1	0.4	47.52	0.00	47.52	0.00%	0.00629
701	LAWN CARE EQUIPMENT	1	0.0	0.00	0.00	0.00	0.00%	0.00000
999	OLD HISTORY	2	236.2	18986.63	54113.49	73100.12	54.70%	9.67445
TOTALS:		110	370.7	32051.12	101651.09	TOT: 133702.21	100%	17.69483

-8200.63 Tires
-2891.55 Pm
122,610.03 Total