

City of Thunder Bay *SAP Fleet Data Management* *-SAP and E3 Fleet-*



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Fleet Services

January 2008





SAP Fleet Data Management



Data Management before 1999

- Manual system for purchase order requests and slow processing;
- Manual system for time entry;
- Printed data reports (not current data);
- Few staff with access to fleet data (not transparent);
- Simple Municipal Fleet Maintenance Information System
MFMIS – simple search and records management since late 80's;
- Limited technical support - 10 yr old program;
- No links to financial, HR or MM functions – fleet data only;
- Limited information and added notes could be added to work order tasks items;
- Capital fleet replacement data managed by separate manual system;



SAP Fleet Data Management

Data Management after 1999

- Go live Jan 1999 SAP HR/MM/FI/CO/PS modules in use;
 - ✓ Human Resources – Employee records and time entry
 - ✓ Materials Management – Total purchasing management
 - ✓ Financial Information – Finance programs and auditing
 - ✓ Cost Control - Budget management
 - ✓ Project Systems – Capital Project Management
- Go live Sept 2002 SAP Plant Maintenance for corporate fleet management;



SAP Fleet Data Management



Key SAP Fleet Data Features

- SAP information is available to any SAP users with access rights;
- SAP users have access rights to transactions relevant to their job;
- SAP Project Systems – total fleet capital budget management program;
- Data drill down from work order level to Materials Management, FI/CO, HR staffing, Fuel, measurement documents (KM/HR), equipment master data and accounts payable process;
- Data is live and easily sourced by many management reports with user managed report data field variants;



SAP Fleet Data Management



Key SAP Fleet Data Features

- Asset tracking – vehicle data, VIN, plate, purchase date, cost etc;
- Customer assignment – single assignment or group of vehicles;
- Preventive/predictive maintenance – automated work order scheduling;
- labour tracking, technicians confirm time worked directly to work order;
- fuel use and cost, daily upload fuel use and costs;
- Technician access to data;
- Real time data reporting, work order and financial reporting;
- Capital replacement program planning and financial management;
- Human resources reporting of all fleet staff;
- Materials management reporting;
- Financial accounting management reporting;



variation: Cost center

9FAE_FLT10 TWKS Pool Fleet

910000 Fleet 10 Pool Fleet

910502 GMC Tire Serv Truck

910509 Tennant Sweeper

910517 Emergency Generators

910518 Chev 1500 Van

910520 Ford Van

910521 Ford Van

910522 Ford Van

910523 Ford Van

910524 Ford Van

910525 Dodge Pickup

910526 Ford E250 Van

910527 Ford E250 Van

910528 Chev Van

910529 Chev Van

910534 GMC Pickup

910536 Ford Van

910539 Ford 1/2 Ton

910540 Chev 3/4 Ton Pickup

910546 Ford Crewcab

910550 Chev 4WD Pickup

910560 Ford 4WD Crewcab

910563 Ford Pickup

910566 GMC Pickup

910577 Ford F250 Pickup

910581 1993 Ford E250

910583 Ford F150 Pickup

910585 1990 Ford Pickup

CCtr: Variance to Plan 12/31/2007 Page 10

Cost center/Group 9FAE_FLT10 TWKS Pool Fleet

* 1 12 2007

Cost elements	Actual	Plan	Variance	Act%Plan	Commit
511100 Salary Regular	-	21,400	21,400	-	-
515100 Fringe Benefits	-	5,800	5,800	-	-
943100 Hourly Reg & Fr	20,410	-	(20,410)	-	-
* WAGES, FRINGES, TRAINI	20,410	27,200	6,790	75.0	-
521596 Purchased Servi	34,814	30,000	(4,814)	116.0	-
522260 Parts Purchase	13,643	17,000	3,357	80.3	-
522265 Parts Inventory	2,832	6,000	3,168	47.2	-
* Vehicle Repairs	51,289	53,000	1,711	96.8	-
** Vehicle Parts & Labou	71,698	80,200	8,502	89.4	-
520960 Gasoline	56,178	63,700	7,522	88.2	-
520965 Diesel	861	-	(861)	-	-
520970 Oil Expense	320	-	(320)	-	-
** Vehicle Fuel & Oil Ex	57,359	63,700	6,341	90.0	-
520700 Telecommunicati	635	-	(635)	-	-
521081 Accidents	1,285	-	(1,285)	-	-
521128 Bldg Mtc-Other	2	-	(2)	-	-
522509 General Tools	40	-	(40)	-	-
522543 Licences & Tags	2,760	5,000	2,240	55.2	-
522705 General Expense	2,112	5,000	2,888	42.2	-
** Other	6,835	10,000	3,165	68.4	-
*** VEHICLE GROSS COSTS	135,893	153,900	18,007	88.3	-
585611 Equip Rntal Rec	-	(153,900)	(153,900)	-	-



5 year comp (Net)

5 year comp (Net) Date: 12/31/2007 Page: 1 / 1

Cost center/Group: 9FAE_FLT10 TWKS Pool Fleet
 Person responsible: *
 Reporting period: 1 to 12 2007 to 2003

Cost elements	Current Year	Previous Year	Act 2 yrs ago	Act 3 yrs ago	Act 4 yrs ago
** Vehicle Parts & Labour	71,698.46	67,527.87	93,610.77	127,863.08	96,650.84
520960 Gasoline	56,178.25	55,540.50	55,181.71	61,410.85	75,541.11
520965 Diesel	861.03	4.69	1,866.83	4,611.28	3,183.36
520970 Oil Expense	319.70	155.74	369.92	796.80	1,041.70
** Vehicle Fuel & Oil Expens	57,358.98	55,700.93	57,418.46	66,818.93	79,766.17
520700 Telecommunication	635.12	635.12	774.07	635.12	
520905 Utilities				1.85	
521081 Accidents	1,285.12	192.24	243.00	146.76	
521128 Bldg Mtc-Other Ma	2.26	1.77	321.81		
521210 Equipment Mainten				1,143.86	
521615 Equipment Rental					
522250 Salt					156.51
522509 General Tools	40.40	6,244.17	80.91	2.09	34.08
522527 Misc Supplies					103.24
522543 Licences & Tags	2,760.18	4,555.15	572.75	4,834.77	6,033.85
522705 General Expense	2,112.03	3,158.36		2,520.83	635.12
523825 Ambulance Supply					
532924 Savings - GST Add				885.33	
** Other	6,835.11	14,786.81	847.04	8,399.95	6,962.80
*** VEHICLE GROSS COSTS	135,892.55	138,015.61	151,876.27	203,081.96	183,379.81
585611 Equipment Rental		22,800.00	22,500.00		
595210 Allocated City Eq	121,762.60	160,699.04	7,056.43		
595214 Allocated City Eq	46,414.66				





List Edit Goto Order Environment Settings System Help
SAP

Display PM orders: List of Orders

Order
Operations

S	Order	System status	Created on	Equipment	Short text	Bas. start date	Actual finish
	70059090	TECO CNF NMAT PRC SETC	12/14/2007	40146	188090km.New application rates.Gerry	12/17/2007	12/14/2007
	70058884	TECO CNF PRT NMAT PRC ...	12/07/2007	40146	Torque R/R wheel nuts	12/07/2007	12/07/2007
	70058564	TECO CNF PRT GMPS MAN...	11/29/2007	40146	Check for coolant smell@188,062km	11/29/2007	12/04/2007
	70058286	TECO CNF PRT MANC NMAT...	11/20/2007	40146	187827km.Convert to spreader,Gerry	11/20/2007	11/26/2007
	70058139	TECO CNF PRT GMPS MAN...	11/15/2007	40146	replace R/R forward axle hub	11/15/2007	11/21/2007
	70058124	TECO CNF PRT GMPS NMAT...		40146	CHANGE 4 TIRES 11R22.5 187819KM	11/15/2007	11/15/2007
	70058114	TECO CNF PRT NMAT PRC ...	11/14/2007	40146	CHECK TIRES ON UNIT.	11/14/2007	11/14/2007
	70058019	TECO CNF PRT GMPS MAN...	11/09/2007	40146	Check engine for high emmissions	11/09/2007	11/13/2007
	70057583	TECO CNF PRT GMPS MAN...	10/25/2007	40146	Perform emission test [Maki's]	10/25/2007	10/30/2007
	70056722	TECO CNF PRT GMPS NMAT...	09/24/2007	40146	186176km. Clutch Brake,Hyd.Leak.Gerry	09/25/2007	11/09/2007
	70056668	TECO CNF PRT GMPS MAN...	09/21/2007	40146	Minor service [Maki's]	10/02/2007	10/03/2007
	70056559	CLSD CNF PRT NMAT PRC ...	09/17/2007	40146	Service call [repair to start]	09/17/2007	09/17/2007
	70056460	CLSD CNF NMAT PRC SETC	09/13/2007	40146	Check brake adjustment@186,020km	09/13/2007	09/13/2007
	70056481	CLSD CNF PRT GMPS MANC...		40146	Repair wiring at fuse panel	09/14/2007	09/17/2007
	70055816	CLSD CNF NMAT PRC SETC	08/20/2007	40146	185252km. Assessment. 40146 Gerry	08/22/2007	08/20/2007
	70054919	CLSD CNF PRT NMAT PRC ...	07/13/2007	40146	184436km.Check Spreader.Gerry	07/16/2007	07/23/2007
	70054888	CLSD CNF PRT NMAT PRC ...	07/12/2007	40146	184435km.Adjust clutch.	07/13/2007	07/12/2007
	70054448	CLSD CNF PRT GMPS MANC...	06/23/2007	40146	Major & CMVI [Maki's]	07/02/2007	07/16/2007
	70054378	CLSD CNF NMAT PRC SETC	06/20/2007	40146	184026km.Engine won't shut off Gerry	06/21/2007	06/20/2007
	70054276	CLSD CNF NMAT PRC SETC	06/18/2007	40146	Replace lic. plates@183,832km	06/18/2007	06/18/2007
	70054193	CLSD CNF PRT GMPS MANC...	06/14/2007	40146	Rust Proofing [Red River Fleet]	06/15/2007	06/27/2007
	70053222	CLSD CNF PRT GMPS MANC...	05/10/2007	40146	Repair exhaust system [Maki's]	05/10/2007	05/10/2007
	70052919	CLSD CNF NMAT PRC SETC	05/01/2007	40146	182256km.RH headlamp.	05/02/2007	05/01/2007
	70051955	CLSD CNF PRT GMPS MANC...	03/25/2007	40146	Minor service [Maki's]	04/03/2007	04/04/2007
	70051912	CLSD CNF GMPS NMAT PRC ...	03/22/2007	40146	182937 Conversion to dump truck.Gerry	03/23/2007	05/14/2007
	70050713	CLSD CNF PRT GMPS NMAT...	02/08/2007	40146	Replace mirror@181,091km	02/08/2007	02/08/2007
	70050434	CLSD CNF PRT GMPS MANC...	01/30/2007	40146	180619KM check for no power Grant	01/30/2007	02/07/2007
	70050311	CLSD CNF PRT NMAT PRC ...	01/25/2007	40146	180539KMS clutch adjustment Grant	01/25/2007	01/29/2007
	70050113	CLSD CNF PRT NMAT PRC ...	01/18/2007	40146	1 BALD TIRE 11R22.5 180497KM LRRO	01/18/2007	01/18/2007

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Display PM orders:...
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SAP Fleet Data Management



Key SAP Fleet Data Features

- Purchase order release protocol by supervisors/managers for cost controls;
- Hourly use tracking of units by customer time sheet (where applicable)
- Measurement documents for all vehicles via fuel system data;
- Measurement documents for vehicles via work order system;
- Drill down from financial records to work order and purchasing data;
- Accounts payable data, invoicing data all on line from work order;
- Access to SAP via VPN and internet network anywhere you are;
- Data search by date range/shop/employee/equipment group etc;
- SAP reports can be easily exported/changed to excel format for data studies and evaluation;
- SAP has training module for new staff training prior to working within live environment;



SAP Fleet Data Management



Key SAP Fleet Data Features

- Search data by work order activity codes/work type/short text;
- Follow work history from delivery of vehicle;
- Fuel data calculates consumption rating – L/100Km for vehicles;
- Attach vendor invoices/pdf/word docs directly into work order operation text notes.
- Data capture for O/S vendor activity by fleet/work sites/staff/date/work type
- Data capture for Planned and Unplanned work by fleet/work site/staff/date work type.



SAP Fleet Data Management



SAP Tomorrow?

- January 2008 – replace Project Systems with Investment Management to improve financial reporting process for projects including grant funding.
- Investment management changes also will assist Provincial PSAB process of accounting for capital assets including depreciation, present value, replacement value accounting required for January 2009.
- Improve SAP data for continued vehicle lifecycle calculations (Nafa format).
- Integration of lifecycle analysis' within RECAP Fleet Capital Planning Program January 2008 implementation.(2006 PSAB Data is uploaded)



Leaders in greening Canadian Fleets

Questions / Comments ?

SAP Fleet Data Management

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