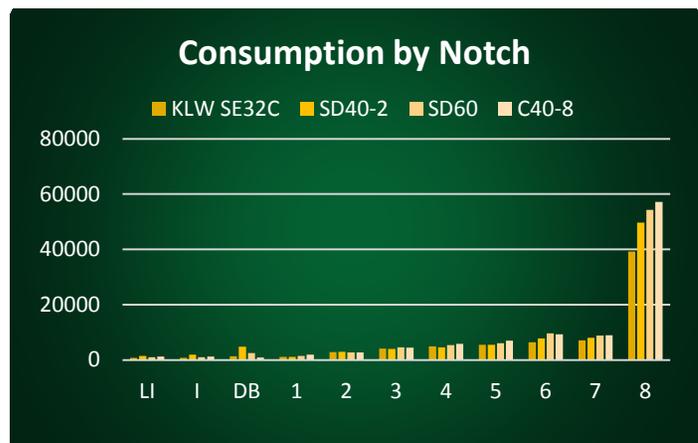
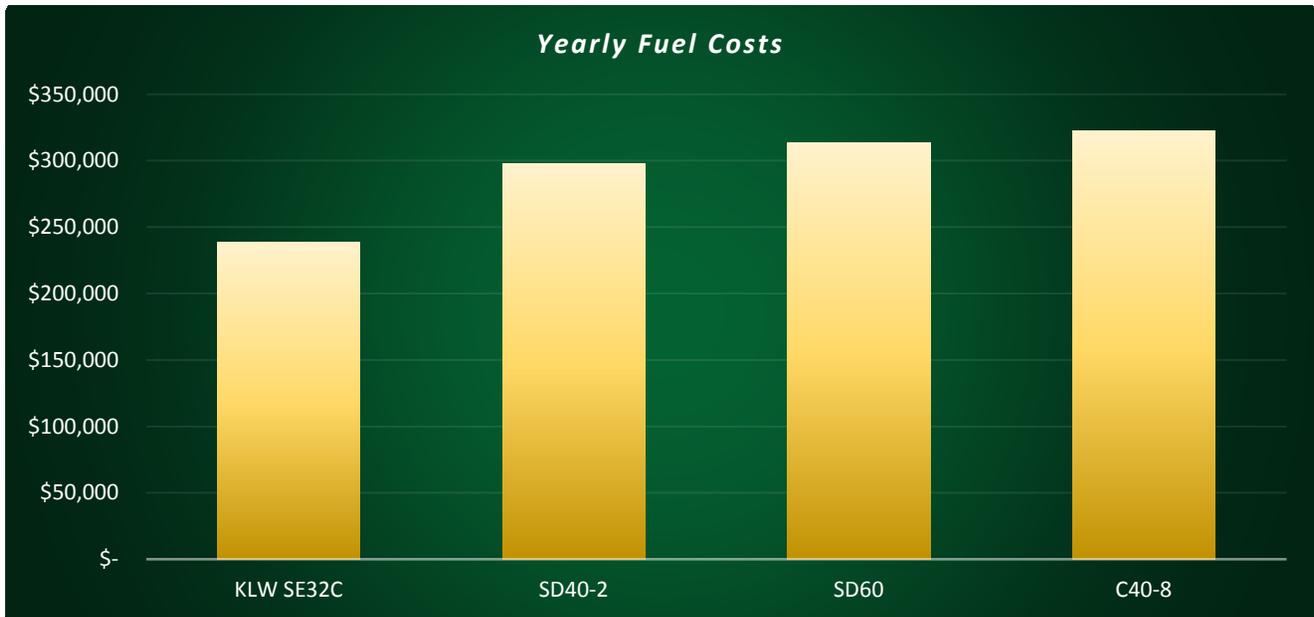




## KLW SE32C-DE Fuel Comparison Line Haul Duty Cycle

SE Series Locomotives



Locomotive	Yearly Fuel Costs
KLW SE32C	\$ 238,526
SD40-2	\$ 298,110
SD60	\$ 313,442
C40-8	\$ 322,664

Locomotive	KLW Savings
SD40-2	19.99%
SD60	23.90%
C40-8	26.08%

Locomotive	KLW Gallons Saved
SD40-2	18,333
SD60	23,051
C40-8	25,888

Locomotive	KLW Yearly Fuel Savings
SD40-2	\$ 59,583
SD60	\$ 74,915
C40-8	\$ 84,137

Yearly Fuel Consumption Per EPA Line Haul Duty Cycle (gallons)					
N	Notch %	KLW SE32C	SD40-2	SD60	C40-8
LI	19.0%	730	1,495	1,043	1,182
I	19.0%	730	1,912	1,043	1,182
DB	12.5%	1,395	4,804	2,516	892
1	6.5%	1,094	1,082	1,427	1,915
2	6.5%	2,819	2,962	2,736	2,700
3	5.2%	4,139	3,940	4,568	4,501
4	4.4%	4,928	4,606	5,363	5,797
5	3.8%	5,521	5,494	6,120	6,940
6	3.9%	6,435	7,744	9,635	9,242
7	3.0%	7,154	7,971	8,784	8,894
8	16.2%	39,176	49,716	54,252	57,217
Total:		74,123	91,726	97,487	100,463
<b>W/AESS:</b>		<b>73,393</b>	<b>91,726</b>	<b>96,444</b>	<b>99,281</b>
Gallons Saved		-	18,333	23,051	25,888
Percent Saved		-	19.99%	23.90%	26.08%
<b>Cost Per Loco</b>		<b>\$238,526</b>	<b>\$298,110</b>	<b>\$313,442</b>	<b>\$322,664</b>

Locomotive Time and Cost Variables	
Hours used per year	1,830
Fuel cost per gallon	\$3.25
Locomotives in use	1

*\*Disclaimer: This data is the result of a set of assumptions being applied to fuel consumption data that is derived from multiple online and print sources. Therefore, the above data may vary from actual fuel consumption and should only be used for estimation purposes. This document cannot be given to third parties without the expressed written consent of KLW/KLC. © 2015 Knoxville Locomotive Corp.*