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Southwestern Petroleum Corporation

STATIONARY GEAR BOX LUBRICATION COST IMPROVEMENT ANALYSIS

With a very small amount of information, we can show you in dollars and cents what a switch to Southwestern Petroleum Corporation's superior SWEPCO Brand Lubricants can mean to your operation. The actual cost of the lubricant is a very small portion of the story. Frequency of lubrication, waste lubricant disposal costs, lube labor, repair parts and labor, equipment service life, replacement cost, fuel or energy usage and cost of downtime must all be considered to reveal the **total cost of lubrication**. Knowing all of these factors permits today's maintenance professional to make good business decisions. Thank you.

	pany Information			
• •	Date/			
Contact Name:				
Address: Citv: State/Prov:	County: Zip/Postal Code:			
	Fax: ()			
Information About Th	ne Individual Unit Being Analyzed			
Type of Equipment:	Manufacturer: Model No:			
Component Being Lubricated:	Manufacturer: Model No:			
Manufacturer's Lubricant Spec: Current L	_ubricant Brand/Weight:			
Type of Service? ○ High Heat ○ High Speed ○ High Load	-			
Other Special Service Notes:				
Number of Identical Units:	Number of Similar Units:			
Questions About Your Current Lu	brication Related Costs (Green Items Required)			
What is your current cost per gal/liter for gear oil?	11. What is your average energy/fuel usage rate for			
How many average hours per week is this unit	this unit (kw per hr or gal/liter per hour)?			
operated?	12. What is your average cost for energy/fuel (per kwhr/gal/liter)?			
3. What is the gear box's oil capacity in gallons/liters?	13. What is the projected life of this gear box in years?			
4. How many gallons/liters of make up oil is used				
between drains?	14. What is replacement cost for this gear box?			
5. What is the gear box's current drain cycle in hours?	15. How many hours do bearings/seals last?			
	16. How long does bearing/seal replacement take the			
6. How long does a routine oil change take?	unit out of service?			
7. What is your cost per gallon/liter for waste oil disposal?	17. What was your last cost for bearing/seal replacement parts?			
What is your current yearly cost for oil analysis songless for this goar box?	18. How many hours do gear sets last?			
services for this gear box?	19. How long do major rebuilds (gear set replace-			
9. What is your hourly cost for maintenance labor (including benefits, taxes, shop overhead, etc)?	ments) take the unit out of service?			
(20. What was your last cost for a gear set?			
10. What is your average hourly cost for downtime (lost revenue, productivity, wages, penalties, etc)?				

SWEPCO Field Service Representative: ______ Phone Number: (_____)

GEAR BOX LUBRICATION COST IMPROVEMENT ANALYSIS

Company: Sweeney Manufacturing

How many average hours/miles per week is this gear box operated? What is the gear box's outlend change hours/miles? How many gallons/filers of make up oil is used between drains? What is the gear box's current drain cycle in hours/miles? What is the gear box's current drain cycle in hours/miles? What is your cost per gallon/filer for waste oil disposal? What is your cost per gallon/filer for waste oil disposal? What is your drain cycle in hours/miles? What is your cost per gallon/filer for waste oil disposal? What is your drain cycle in hours/miles of waste oil disposal? What is your average oil for oil analysis services for this gear box? What is your hourly cost for maintenance labor (including benefits, taxes, shop overhead, etc)? What is your average hourly cost for downtime (lost revenue, productivity, wages, penatiles, etc)? What is your average energy/fuel usage rate for this unit? What is your average energy/fuel usage rate for this unit? What is your average cost for energy/fuel? SECTION 3 – EQUIPMENT COST INFORMATION What is replacement ose for this gear box? What is replacement ose for this gear box? What is replacement ose for this gear box? SECTION 4 – GURRENT REPAIR COST INFORMATION How many hours/miles do bearings and seals last? How long does bearing/seal replacement take the unit out of service? How many hours/miles do pear sets last? How long do major rebuilds (gear set replacements) such the unit out of service? What was your last cost for a gear set? SECTION 5 – LUBRICATION COST ANALYSIS Week Cost of Gear Oil Per Gallon/Liter In Service Hours/Miles Per Year Oil changes Per Year Gear Set Replacements Per Year Annualized Foul Found for Service? Annualized Foul Found Found for Service? The BOTTOM LINE - TOTAL ANNUALIZED GEAR BOX OPERATING COST SECTION 1 – CURRENT GEAR GOX OPERATING COST THE BOTTOM LINE - TOTAL ANNUALIZED GEAR BOX OPERATING COST SECTION 2 – Set Set Set Set Set Set Set Set Set	Gear Box Description: Johnson Power Model 425G Planetary Gear Box			
What is the gear box's oil capacity in gallons/liters? How many gallons/liters of make up oil is used between drains? What is the gear box's current drain cycle in hours/milles? How long does a routine oil change take? What is your cost per gallon/liter for waste oil disposal? What is your cost per gallon/liter for waste oil disposal? What is your cost for maintenance labor (including benefits, taxes, shop overhead, etc)? What is your average hourly cost for downtime (lost revenue, productivity, wages, penalties, etc)? What is your average one regryfuel usage rate for this unit? What is your average cost for energyfuel? SECTION 2 - EQUIPMENT COST INFORMATION What is the projected life of this gear box? What is the projected life of this gear box? What is replacement cost for this gear box? What was your last cost for bearing/seal replacement parts? How long does bearing/seal replacements lake the unit out of service? What was your last cost for bearing/seal replacement parts? How long does bearing/seal replacements lake the unit out of service? What was your last cost for a gear set? What was your last cost for a gear set? What was your last cost for a gear set? What was your last cost for a gear set? SECTION 5 - LUBRICATION COST ANALYSIS Projected EnergyFuel Savings Cost of Gear Oil Per Gallon/Liter Projected EnergyFuel Savings Cost of Gear Oil Per Gallon/Liter Searing/Seal Replacements Per Year Annualized New Oil Costs Annualized New Oil Costs Annualized New Oil Costs Annualized Darkoosts Annualized Darkoosts Annualized Darkoosts Annualized Darkoosts Seal Sassass Seal Sas	SECTION 1 CURRENT MAINTENANCE INFORMATION			
How many gallons/liters of make up oil is used between drains? What is the gear box's current drain cycle in hours/miles? How long does a routine oil change take? What is your cost per gallon/liter for waste oil disposal? What is your current yearly cost for oil analysis services for this gear box? What is your hourly cost for maintenance labor (including benefits, taxes, shop owerhead, etc)? What is your average hourly cost for downlime (lost revenue, productivity, wages, penalties, etc)? SECTION 2 - CURRENT ENERCY/FUEL COST INFORMATION What is your average energy/fuel usage rate for this unit? What is your average energy/fuel usage rate for this unit? SECTION 3 - EQUIPMENT COST INFORMATION What is the projected life of this gear box in years? What is replacement cost for this gear box? What is replacement cost for this gear box? SECTION 4 - CURRENT ENERCYFUEL COST INFORMATION What is pour average one service? What was your last cost for bearing/seal replacement parts? How long does bearing/seal replacement take the unit out of service? What was your last cost for bearing/seal replacements) take the unit out of service? What was your last cost for a gear sets last? How long do major rebuilds (gear set replacements) take the unit out of service? What was your last cost for a gear sets and sets last? Projected Equipment Life Reading/Seal Replacements Per Year Gear Set Replacements Per Year Gear	How many average hours/miles per week is this gear box operated?	100	Hours/Miles per Week	
What is the gear box's current drain cycle in hours/miles? How long does a routine oil change take? What is your cost per gallorniller for washe oil disposal? What is your current yearly cost for oil analysis services for this gear box? What is your hourly cost for maintenance labor (including benefits, taxes, shop overhead, etc)? What is your average hourly cost for downtime (lost revenue, productivity, wages, penaltiles, etc)? SECTION 2 - CURRENT ENERCY/FUEL COST INFORMATION What is your average energy/fuel usage rate for this unit? What is your average cost for energy/fuel? SECTION 3 - EQUIPMENT COST INFORMATION What is the projected file of this gear box in years? What is replacement cost for this gear box? What is replacement to for this gear box? What was your last cost for bearings and seals last? How long does bearing/seal replacement take the unit out of service? What was your last cost for bearing/seal replacement parks? How many hours/miles do gear sets last? How long do major rebuilds (gear set replacement) stake the unit out of service? What was your last cost for bearing/seal replacement parks? SECTION 5 - LUBRICATION COST ANALYSIS Per Set Per Set SECTION 5 - LUBRICATION COST ANALYSIS Cost of Gear Oil Per Gallor/Liter Projected Energy/Fuel Savings Cost of Gear Oil Per Gallor/Liter Gear Set Replacements Per Year Gear Set Replacements Per Year Gear Set Replacements Per Year Oil Changes Per Year Bearing/Seal Replacements Per Year Annualized New Oil Coets Annualized Parks Costs Annualized Parks Costs Annualized Parks Costs Annualized Parks Costs Set 333.33 S5.555.56	What is the gear box's oil capacity in gallons/liters?	28	Gallons/Liters	
How long does a routine oil change take? What is your courent yearly cost for eagland/liter for waste oil disposal? What is your courent yearly cost for oil analysis services for this gear box? What is your average hourly cost for maintenance labor (including benefits, taxes, shop overhead, etc)? What is your average hourly cost for domultime (lost revenue, productivity, wages, penalties, etc)? SECTION 2 — CURRENT ENERGY/FUEL COST INFORMATION What is your average energy/fuel usage rate for this unit? SECTION 3 — EQUIPMENT COST INFORMATION What is the projected life of this gear box? SECTION 4 — CURRENT REPAIR COST INFORMATION What is the projected life of this gear box? SECTION 4 — CURRENT REPAIR COST INFORMATION How many hours/miles do bearings and seals last? What was your last cost for bearings and seals last? How long does bearing/seal replacement back the unit out of service? What was your last cost for a gear set? What was your last cost for a gear set? SECTION 5 — LUBRICATION COST ANALYSIS Per Set How many hours/miles do gear sets last? Projected Equipment Life Projected Energy/Fuel Savings Cost of Gear Oil Per Gallon/Liter Projected Energy/Fuel Savings Cost of Gear Oil Per Gallon/Liter Bearing/Seal Replacements Per Year Annualized Fer Year Bearing/Seal Replacements Per Year Annualized New Oil Costs Annualized New Oil Costs Annualized Park Costs Security	How many gallons/liters of make up oil is used between drains?	4	Gallons/Liters	
What is your courrent yearly cost for oil analysis services for this gear box? What is your hourly cost for maintenance labor (including benefits, taxes, shop overhead, etc)? What is your average hourly cost for downtime (lost revenue, productivity, wages, penalties, etc)? SECTION 2 — CURRENT ENERGY/FUEL COST INFORMATION What is your average energy/fuel usage rate for this unit? What is your average energy/fuel usage rate for this unit? SECTION 3 — EQUIPMENT COST INFORMATION What is the projected life of this gear box in years? What is replacement cost for this gear box? SECTION 4 — CURRENT REPAIR COST INFORMATION How many hours/miles do bearings and seals last? How long does bearing/seal replacement take the unit out of service? What was your last cost for bearing/seal replacement parts? How any hours/miles do gear sets last? How long do major rebuilds (gear set replacements) take the unit out of service? What was your last cost for bearing/seal replacement parts? Flow may hours/miles do gear sets last? What was your last cost for a gear set? SECTION 5 — LUBRICATION COST ANALYSIS What was your last cost for a gear set? SECTION 5 — LUBRICATION COST ANALYSIS In Service Hours/Miles Per Year Oil Changes Per Year Section 6 — Projected Equipment Life Projected Energy/Fuel Savings Oil Current Section 6 — Sear Oil Per Gallon/Liter Searing/Seal Replacements Per Year Oil Changes Per Year Sear Set Replacements Per Year Annualized Oil Analysis & Used Oil Disposal Costs Annualized New Oil Costs Section 5 — Sear Sear Sear Sear Sear Sear Sear Sear	What is the gear box's current drain cycle in hours/miles?	600	Hours/Miles	
What is your current yearly cost for oil analysis services for this gear box? What is your hourly cost for maintenance labor (including benefits, taxes, shop overhead, etc)? What is your average hourly cost for downtime (lost revenue, productivity, wages, penalties, etc)? SECTION 2 CURRENT ENERCY/FUEL COST INFORMATION What is your average energy/fuel usage rate for this unit? What is your average energy/fuel usage rate for this unit? What is your average cost for energy/fuel? SECTION 3 EQUIPMENT COST INFORMATION What is the projected life of this gear box in years? SECTION 4 CURRENT REPAIR COST INFORMATION What is replacement cost for this gear box? SECTION 4 CURRENT REPAIR COST INFORMATION How many hours/miles do bearings and seats last? How long does bearing/seal replacement take the unit out of service? What was your last cost for bearing/seal replacement parts? How long do major rebuilds (gear set replacement)s take the unit out of service? What was your last cost for a gear set? SECTION 5 LUBRICATION COST ANALYSIS Projected Equipment Life Projected Equipment Life 100.00% Projected Energy/Fuel Savings Cost of Gear Oil Per Gallon/Liter Projected Energy/Fuel Savings O.00% Cost of Gear Oil Per Gallon/Liter Projected Energy/Fuel Savings O.00% Cost of Gear Oil Per Gallon/Liter Gear Set Replacements Per Year Searing/Seal Replacements Per Year Annualized New Oil Costs Annualized New Oil Costs Annualized New Oil Costs Annualized New Oil Costs S2,532,777 S1,445,76 Annualized New Oil Cost S2,233,33 S2,8371.11 Annualized Fuel/Energy Usage Equipment Cost Per Year Of Service S8,333,33 S5,555,56	How long does a routine oil change take?	2.00	Hours	
What is your hourly cost for maintenance labor (including benefits, taxes, shop overhead, etc)? What is your average hourly cost for downtime (lost revenue, productivity, wages, penalties, etc)? SECTION 2 — CURRENT ENERGY/FUEL COST INFORMATION What is your average energy/fuel usage rate for this unit? What is your average cost for energy/fuel? SECTION 3 — EQUIPMENT COST INFORMATION What is the projected life of this gear box in years? What is replacement cost for this gear box? SECTION 4—CURRENT REPAIR COST INFORMATION How many hours/miles do bearings and seals last? How long does bearing/seal replacement take the unit out of service? What was your last cost for bearing/seal replacement parts? How long do major rebuilds (gear set replacements) take the unit out of service? What was your last cost for a gear set? SECTION 5 — LUBRICATION COST ANALYSIS SECTION 5 — LUBRICATION COST ANALYSIS SECTION 5 — LUBRICATION COST ANALYSIS In Service Hours/Miles Per Year Oil Changes Per Year Oil Changes Per Year Gear Set Replacements Per Year Annualized New Oil Costs Annualized New Oil Costs Annualized New Oil Costs Annualized Labor Costs SE, 33, 33, 3, 55,555.56	What is your cost per gallon/liter for waste oil disposal?	\$0.46	Per Gallon/Liter	
SECTION 2 - CURRENT ENERGY/FUEL COST INFORMATION What is your average energy/fuel usage rate for this unit? What is your average cost for energy/fuel? SECTION 3 - EQUIPMENT COST INFORMATION What is replacement cost for this gear box in years? What is replacement cost for this gear box? SECTION 4 - CURRENT REPAIR COST INFORMATION What is replacement cost for this gear box? SECTION 4 - CURRENT REPAIR COST INFORMATION How many hours/miles do bearings and seals last? How long does bearing/seal replacement take the unit out of service? What was your last cost for bearing/seal replacement parts? How many hours/miles do gear sets last? How long do major rebuilds (gear set replacements) take the unit out of service? What was your last cost for a gear set? SECTION 5 - LUBRICATION COST ANALYSIS Projected Equipment Life Projected Equipment Life Projected Equipment Life Projected Equipment Life Projected Energy/Fuel Savings Cost of Gear Oil Per Gallon/Liter In Service Hours/Miles Per Year Oil Changes Per Year Sear Replacements Per Year Gear Set Replacements Per Year Annualized New Oil Costs Annualized New Oil Costs Annualized New Oil Costs Annualized Labor Costs Annualized Labor Costs Annualized Cost of Downtime Annualized Cost of Downtime Annualized Fuel/Energy Usage Equipment Cost Per Year Of Service 833,333 S5,555.56	What is your current yearly cost for oil analysis services for this gear box?	\$300.00	Per Year	
SECTION 2 - CURRENT ENERGY/FUEL COST INFORMATION What is your average energy/fuel usage rate for this unit? What is your average cost for energy/fuel? SECTION 3 - EQUIPMENT COST INFORMATION What is the projected life of this gear box? SECTION 4 - CURRENT REPAIR COST INFORMATION How many hours/miles do bearings and seals last? How long does bearing/seal replacement take the unit out of service? What was your last cost for bearing/seal replacement parts? How many hours/miles do gear sets last? How long do major rebuilds (gear set replacements) lake the unit out of service? What was your last cost for a gear sets SECTION 5 - LUBRICATION COST ANALYSIS Projected Equipment Life Projected Hours/Miles Projected Equipment Life Projected Hours/Miles Projected Equipment Life Projected Equipment Life Projected Equipment Life Projected Equipment Life Projected Hours/Miles Projected Equipment Life Projected Hours/Miles Projected Equipment Life Projected Equipment Life Projected Equipment Life Projected Hours/Miles Projected Equipment Life Projected Hours/Miles Projected Equipment Life Projected Hours/Miles Projected Equipment Life Projected Equipment Life Projected Hours/Miles Projected Equipment Life Project	What is your hourly cost for maintenance labor (including benefits, taxes, shop overhead, etc)?	\$53.24	Per Hour	
What is your average energy/fuel usage rate for this unit? What is your average cost for energy/fuel? SECTION 3 EQUIPMENT COST INFORMATION What is the projected life of this gear box in years? What is replacement cost for this gear box? SECTION 4 CURRENT REPAIR COST INFORMATION How many hours/miles do bearing/seal replacement parts? How long does bearing/seal replacement parts? How many hours/miles do gear sets last? How many hours/miles do gear sets last? How many hours/miles do gear sets last? What was your last cost for bearing/seal replacement parts? What was your last cost for a gear set? SECTION 5 LUBRICATION COST ANALYSIS Projected Drain Interval Projected Energy/Fuel Savings Cost of Gear Oil Per Gallon/Liter In Service Hours/Miles Per Year Oil Changes Per Year Oil Changes Per Year Sear Replacements Per Year Oil Changes Per Year Annualized Replacements Per Year Annualized Noil Costs Annualized Noil Costs Annualized Noil Costs Annualized Parts Costs SEC, 33, 33 SE, 555, 556 WWHAT or Gall/Liter /RWHr Per Gall/Liter/KWHr Per Gall/Liter/KWHr Per Gall/Liter/KWHr Per Gall/Liter/KWHr Scan Years Scoon Vears Vears Scoon Vears Vears Scoon Vears Scoon Vears Vears Scoon Vears Vears Scoon Vears Vears Vears Vears Vears Vears	What is your average hourly cost for downtime (lost revenue, productivity, wages, penalties, etc)?	\$1,100.00	Per Hour	
SECTION 3 EQUIPMENT COST INFORMATION	SECTION 2 CURRENT ENERGY/FUEL COST INFORMATION			
SECTION 3 - EQUIPMENT COST INFORMATION What is the projected life of this gear box in years? What is replacement cost for this gear box? SECTION 4 CURRENT REPAIR COST INFORMATION How many hours/miles do bearings and seals last? How long does bearing/seal replacement take the unit out of service? What was your last cost for bearing/seal replacement parts? How many hours/miles do gear sets last? How long do major rebuilds (gear set replacements) take the unit out of service? What was your last cost for a gear set? What was your last cost for a gear set? SECTION 5 - LUBRICATION COST ANALYSIS Projected Drain Interval Projected Equipment Life Projected Equipment Life 100.00% 150.00% Of Current Projected Equipment Life 100.00% 150.00% Of Current Cost of Gear Oil Per Gallon/Liter Section Service Hours/Miles Per Year Oil Changes Per Year Searing/Seal Replacements Per Year Annualized New Oil Costs Annualized Section	What is your average energy/fuel usage rate for this unit?	8.33	KW/Hr or Gal/Liter per Mile or F	
What is the projected life of this gear box in years? What is replacement cost for this gear box? SECTION 4 — CURRENT REPAIR COST INFORMATION How many hours/miles do bearings and seals last? How long does bearing/seal replacement take the unit out of service? What was your last cost for bearing/seal replacement parts? How long do major rebuilds (gear set replacement) take the unit out of service? What was your last cost for a gear sets last? How long do major rebuilds (gear set replacements) take the unit out of service? What was your last cost for a gear set? What was your last cost for a gear set? Projected Drain Interval Projected Equipment Life Projected Equipment Life Projected Energy/Fuel Savings Cost of Gear Oil Per Gallon/Liter In Service Hours/Miles Per Year Oil Changes Per Year Oil Changes Per Year Gear Set Replacements Per Year Annualized New Oil Costs Annualized New Oil Costs Annualized Abor Costs Annualized Cost of Downtime Annualized Cost of Downtime Annualized Cost of Downtime Equipment Cost Per Year Of Service Section 3.3.3 Section 3.3.3 Section 3.3.3.3 Section 3.3.3.	What is your average cost for energy/fuel?	\$0.98	Per Gal/Liter/KWHr	
SECTION 4 — CURRENT REPAIR COST INFORMATION How many hours/miles do bearings and seals last? How long does bearing/seal replacement take the unit out of service? What was your last cost for bearing/seal replacement parts? How long do major rebuilds (gear set replacements) take the unit out of service? What was your last cost for a gear set? How long do major rebuilds (gear set replacements) take the unit out of service? What was your last cost for a gear set? Projected Drain Interval Projected Equipment Life Projected Equipment Life Projected Energy/Fuel Savings Cost of Gear Oil Per Gallon/Liter In Service Hours/Miles Per Year Oil Changes Per Year Bearing/Seal Replacements Per Year Gear Set Replacements Per Year Annualized New Oil Costs Annualized Abor Costs Annualized Tosts Sp. 30.33 Annualized Cost of Downtime Annualized Cost of Downtime Annualized Cost of Downtime Equipment Cost Per Year Of Service Section 3.33.33 Sp.555.56.	SECTION 3 EQUIPMENT COST INFORMATION			
SECTION 4 CURRENT REPAIR COST INFORMATION	What is the projected life of this gear box in years?	s? 6.00 Years		
How many hours/miles do bearings and seals last? How long does bearing/seal replacement take the unit out of service? 10.00 Hours	What is replacement cost for this gear box?	\$50,000.00	Each	
How long does bearing/seal replacement take the unit out of service? What was your last cost for bearing/seal replacement parts? How many hours/miles do gear sets last? How long do major rebuilds (gear set replacements) take the unit out of service? What was your last cost for a gear set? 16.00 Hours / Miles	SECTION 4 CURRENT REPAIR COST INFORMATION			
What was your last cost for bearing/seal replacement parts? How many hours/miles do gear sets last? How long do major rebuilds (gear set replacements) take the unit out of service? What was your last cost for a gear set? SECTION 5 - LUBRICATION COST ANALYSIS Projected Drain Interval Projected Equipment Life Projected Equipment Life Projected Energy/Fuel Savings Cost of Gear Oil Per Gallon/Liter In Service Hours/Miles Per Year Oil Changes Per Year Gear Set Replacements Per Year Annualized New Oil Costs Annualized Annualized Dil Analysis & Used Oil Disposal Costs Annualized Cost of Downtime Annualized Cost of Downtime Annualized Fuel/Energy Usage Equipment Cost Per Year Of Service \$9,600 Hours/Hours Hours Bear Set	How many hours/miles do bearings and seals last?	2,400	Hours/Miles	
How many hours/miles do gear sets last? 9,600 Hours/Miles How long do major rebuilds (gear set replacements) take the unit out of service? 16.00 Hours Hours What was your last cost for a gear set? \$11,000.00 Per Set SECTION 5 - LUBRICATION COST ANALYSIS Current Supplier SWEPCO	How long does bearing/seal replacement take the unit out of service?	10.00	Hours	
How long do major rebuilds (gear set replacements) take the unit out of service? What was your last cost for a gear set? S11,000.00 Per Set	What was your last cost for bearing/seal replacement parts?	\$925.00	Per Set	
SECTION 5 LUBRICATION COST ANALYSIS SWEPCO	How many hours/miles do gear sets last?	9,600	Hours/Miles	
Projected Drain Interval	How long do major rebuilds (gear set replacements) take the unit out of service?	16.00	Hours	
Projected Drain Interval 100.00% 250.00% Of Current Projected Equipment Life 100.00% 150.00% Of Current Projected Energy/Fuel Savings 0.00% 3.00% Of Current Cost of Gear Oil Per Gallon/Liter \$9.10 \$23.55 In Service Hours/Miles Per Year 5,200 5,200 Oil Changes Per Year 8.67 3.47 Bearing/Seal Replacements Per Year 2.17 1.44 Gear Set Replacements Per Year 0.54 0.36 Annualized New Oil Costs \$2,523.73 \$2,612.48 Annualized Oil Analysis & Used Oil Disposal Costs \$427.57 \$51.03 Annualized Parts Costs \$7,962.50 \$5,308.33 Annualized Parts Costs \$7,962.50 \$5,308.33 Annualized Fuel/Energy Usage \$42,449.68 \$41,176.19 Equipment Cost Per Year Of Service \$8,333.33 \$5,555.56	What was your last cost for a gear set?	\$11,000.00	Per Set	
Projected Equipment Life 100.00% 150.00% Of Current Projected Energy/Fuel Savings 0.00% 3.00% Of Current Ost of Gear Oil Per Gallon/Liter \$9.10 \$23.55 In Service Hours/Miles Per Year 5,200 5,200 Oil Changes Per Year 8.67 3.47 Bearing/Seal Replacements Per Year 9.54 0.36 Annualized New Oil Costs \$2,523.73 \$2,612.48 Annualized Oil Analysis & Used Oil Disposal Costs \$427.57 \$51.03 Annualized Labor Costs \$2,537.77 \$1,445.76 Annualized Parts Costs \$7,962.50 \$5,308.33 Annualized Cost of Downtime \$52,433.33 \$29,871.11 Annualized Fuel/Energy Usage \$42,449.68 \$41,176.19 Equipment Cost Per Year Of Service \$8,333.33 \$5,555.56	SECTION 5 LUBRICATION COST ANALYSIS	Current Supplier	SWEPCO	
Projected Energy/Fuel Savings 0.00% 3.00% Cost of Gear Oil Per Gallon/Liter \$9.10 \$23.55 In Service Hours/Miles Per Year 5,200 5,200 Oil Changes Per Year 8.67 3.47 Bearing/Seal Replacements Per Year 2.17 1.44 Gear Set Replacements Per Year 0.54 0.36 Annualized New Oil Costs \$2,523.73 \$2,612.48 Annualized Oil Analysis & Used Oil Disposal Costs \$427.57 \$51.03 Annualized Labor Costs \$2,537.77 \$1,445.76 Annualized Parts Costs \$7,962.50 \$5,308.33 Annualized Cost of Downtime \$52,433.33 \$29,871.11 Annualized Fuel/Energy Usage \$42,449.68 \$41,176.19 Equipment Cost Per Year Of Service \$8,333.33 \$5,555.56	Projected Drain Interval	100.00%	250.00%	Of Current
Cost of Gear Oil Per Gallon/Liter In Service Hours/Miles Per Year Oil Changes Per Year Bearing/Seal Replacements Per Year Gear Set Replacements Per Year Annualized New Oil Costs Annualized New Oil Costs Annualized Costs Annualized Labor Costs Annualized Parts Costs Annualized Cost of Downtime Annualized Fuel/Energy Usage Equipment Cost Per Year Of Service \$9.10 \$23.55 \$2,00 5,200 5,200 5,200 5,200 6,200	Projected Equipment Life	100.00%	150.00%	Of Current
In Service Hours/Miles Per Year 5,200 5,200 Oil Changes Per Year 8.67 3.47 Bearing/Seal Replacements Per Year 2.17 1.44 Gear Set Replacements Per Year 0.54 0.36 Annualized New Oil Costs \$2,523.73 \$2,612.48 Annualized Oil Analysis & Used Oil Disposal Costs \$427.57 \$51.03 Annualized Labor Costs \$2,537.77 \$1,445.76 Annualized Parts Costs \$7,962.50 \$5,308.33 Annualized Cost of Downtime \$52,433.33 \$29,871.11 Annualized Fuel/Energy Usage \$42,449.68 \$41,176.19 Equipment Cost Per Year Of Service \$8,333.33 \$5,555.56	Projected Energy/Fuel Savings	0.00%	3.00%	Of Current
Oil Changes Per Year 8.67 3.47 Bearing/Seal Replacements Per Year 2.17 1.44 Gear Set Replacements Per Year 0.54 0.36 Annualized New Oil Costs \$2,523.73 \$2,612.48 Annualized Oil Analysis & Used Oil Disposal Costs \$427.57 \$51.03 Annualized Labor Costs \$2,537.77 \$1,445.76 Annualized Parts Costs \$7,962.50 \$5,308.33 Annualized Cost of Downtime \$52,433.33 \$29,871.11 Annualized Fuel/Energy Usage \$42,449.68 \$41,176.19 Equipment Cost Per Year Of Service \$8,333.33 \$5,555.56	Cost of Gear Oil Per Gallon/Liter	\$9.10	\$23.55	
Bearing/Seal Replacements Per Year 2.17 1.44 Gear Set Replacements Per Year 0.54 0.36 Annualized New Oil Costs \$2,523.73 \$2,612.48 Annualized Oil Analysis & Used Oil Disposal Costs \$427.57 \$51.03 Annualized Labor Costs \$2,537.77 \$1,445.76 Annualized Parts Costs \$7,962.50 \$5,308.33 Annualized Cost of Downtime \$52,433.33 \$29,871.11 Annualized Fuel/Energy Usage \$42,449.68 \$41,176.19 Equipment Cost Per Year Of Service \$8,333.33 \$5,555.56	In Service Hours/Miles Per Year	5,200	5,200	
Gear Set Replacements Per Year 0.54 0.36 Annualized New Oil Costs \$2,523.73 \$2,612.48 Annualized Oil Analysis & Used Oil Disposal Costs \$427.57 \$51.03 Annualized Labor Costs \$2,537.77 \$1,445.76 Annualized Parts Costs \$7,962.50 \$5,308.33 Annualized Cost of Downtime \$52,433.33 \$29,871.11 Annualized Fuel/Energy Usage \$42,449.68 \$41,176.19 Equipment Cost Per Year Of Service \$8,333.33 \$5,555.56	Oil Changes Per Year	8.67	3.47	
Annualized New Oil Costs \$2,523.73 \$2,612.48 Annualized Oil Analysis & Used Oil Disposal Costs \$427.57 \$51.03 Annualized Labor Costs \$2,537.77 \$1,445.76 Annualized Parts Costs \$7,962.50 \$5,308.33 Annualized Cost of Downtime \$52,433.33 \$29,871.11 Annualized Fuel/Energy Usage \$42,449.68 \$41,176.19 Equipment Cost Per Year Of Service \$8,333.33 \$5,555.56	Bearing/Seal Replacements Per Year	2.17	1.44	
Annualized Oil Analysis & Used Oil Disposal Costs \$427.57 \$51.03 Annualized Labor Costs \$2,537.77 \$1,445.76 Annualized Parts Costs \$7,962.50 \$5,308.33 Annualized Cost of Downtime \$52,433.33 \$29,871.11 Annualized Fuel/Energy Usage \$42,449.68 \$41,176.19 Equipment Cost Per Year Of Service \$8,333.33 \$5,555.56	Gear Set Replacements Per Year	0.54	0.36	
Annualized Labor Costs \$2,537.77 \$1,445.76 Annualized Parts Costs \$7,962.50 \$5,308.33 Annualized Cost of Downtime \$52,433.33 \$29,871.11 Annualized Fuel/Energy Usage \$42,449.68 \$41,176.19 Equipment Cost Per Year Of Service \$8,333.33 \$5,555.56	Annualized New Oil Costs	\$2,523.73	\$2,612.48	
Annualized Parts Costs \$7,962.50 \$5,308.33 Annualized Cost of Downtime \$52,433.33 \$29,871.11 Annualized Fuel/Energy Usage \$42,449.68 \$41,176.19 Equipment Cost Per Year Of Service \$8,333.33 \$5,555.56	Annualized Oil Analysis & Used Oil Disposal Costs	\$427.57	\$51.03	
Annualized Cost of Downtime \$52,433.33 \$29,871.11 Annualized Fuel/Energy Usage \$42,449.68 \$41,176.19 Equipment Cost Per Year Of Service \$8,333.33 \$5,555.56	Annualized Labor Costs	\$2,537.77	\$1,445.76	
Annualized Fuel/Energy Usage \$42,449.68 \$41,176.19 Equipment Cost Per Year Of Service \$8,333.33 \$5,555.56	Annualized Parts Costs	\$7,962.50	\$5,308.33	
Equipment Cost Per Year Of Service \$8,333.33 \$5,555.56	Annualized Cost of Downtime	\$52,433.33	\$29,871.11	
·	Annualized Fuel/Energy Usage	\$42,449.68	\$41,176.19	
THE BOTTOM LINE TOTAL ANNUALIZED GEAR BOX OPERATING COST \$116,667.93 \$86,020.46	Equipment Cost Per Year Of Service	\$8,333.33	\$5,555.56	
	THE BOTTOM LINE TOTAL ANNUALIZED GEAR BOX OPERATING COST	\$116,667.93	\$86,020.46	
Projected Yearly SWEPCO Savings In Dollars \$30,647.47	Projected Yearly SWEPCO Savings In Dollars		\$30,647.47	
Projected Yearly SWEPCO Savings As A Percent 26.27%	Projected Yearly SWEPCO Savings As A Percent		26.27%	\leftarrow