MDEC 2018



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S6P1 - 1

Overview Emissions testing and engine maintenance Retrofit DPF technologies DPF support systems Performance Results DPM sampling results

Emissions Testing and Maintenance

- Ecom analyzer with DEEMS interface
- Planned and scheduled intervals
- Engine condition monitoring and maintenance intervention



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DPF Technologies

- CAT Partial Flow Filter passive
- TF Hudgins Stratus active sintered metal DPF
- Clariant Envicat passive catalyzed Cordierite DPF



DPF Support Systems

- CDTi (ECS) Exhaust Monitor Logger
 - Rugged and simple
 - Monitors alarms logs exhaust temp and backpressure
- DPF Cleaning and Spare Parts
 - DM Filter Services, Newmarket, ON
 - Former ECS CDTi group with UG mining experience







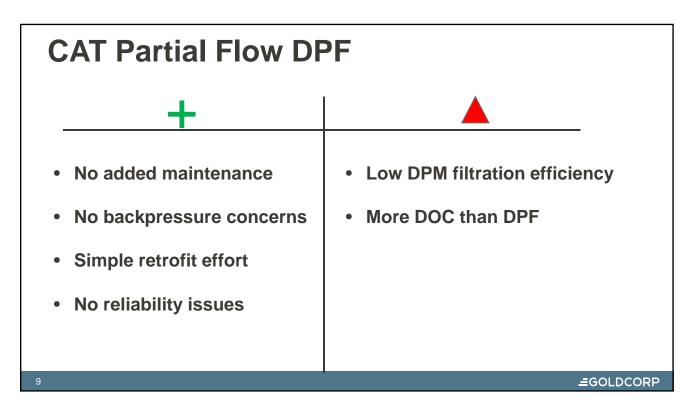
Fleet DP	leet DPFs - Current					
MACHINE	ТҮРЕ	MODEL	DPF			
428	Truck	AD30	Clariant Envicat			
429	Truck	AD30	Clariant Envicat			
432	Truck	AD30	Clariant Envicat			
568	Scoop	R1600	Clariant Envicat			
574	Scoop	R1600	Clariant Envicat			
575	Scoop	R1600	Clariant Envicat			
576	Scoop	R1600	Clariant Envicat			
565	Scoop	EJC210	Clariant Envicat			
542	Scoop	R1300	TF Hudgins Stratus			
545	Scoop	R1300	TF Hudgins Stratus			
733	Pickup	Toyota	Clariant Envicat			

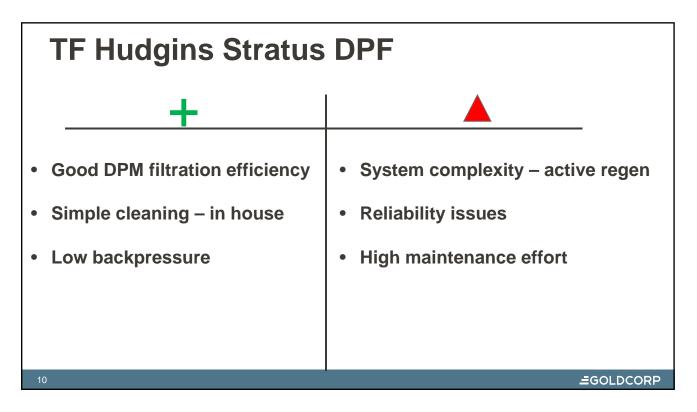
Fleet DPFs – Additions By Year End

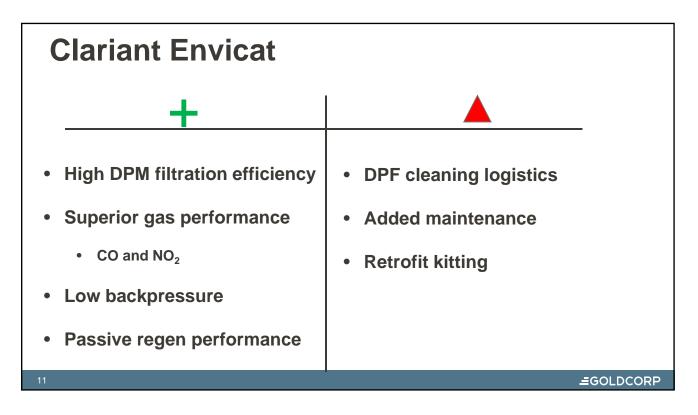
UNITS	TYPE	MODEL	DPF
2	Truck	AD30	Clariant Envicat
2	Scoop	R1600	Clariant Envicat
1	Scoop	LH410	Mammoth
1	Scoop	LH514	Mammoth
1	Scoop	LH307	Clariant Envicat
1	Scoop	RDH 300	Clariant Envicat
1	Support	Minecat	Clariant Envicat
1	Support	Boomtruck	Clariant Envicat

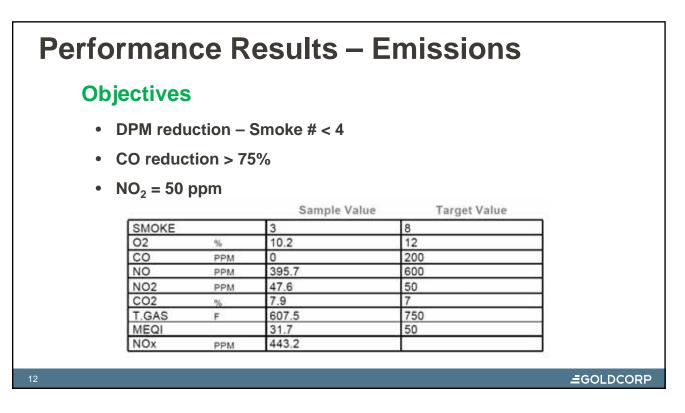
Note: All haul trucks and 90% of scoops (HP) equipped with DPFs end of 2018

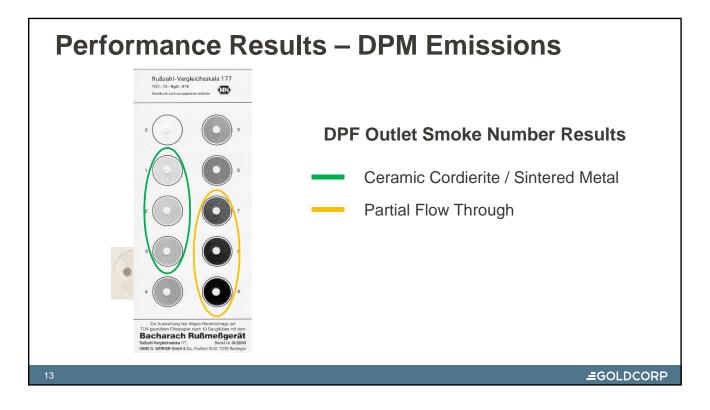
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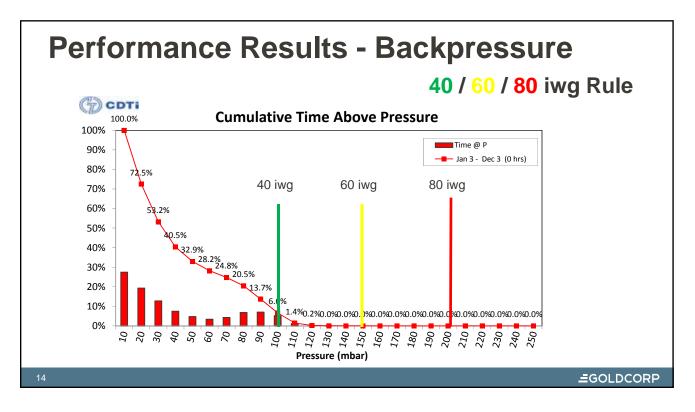


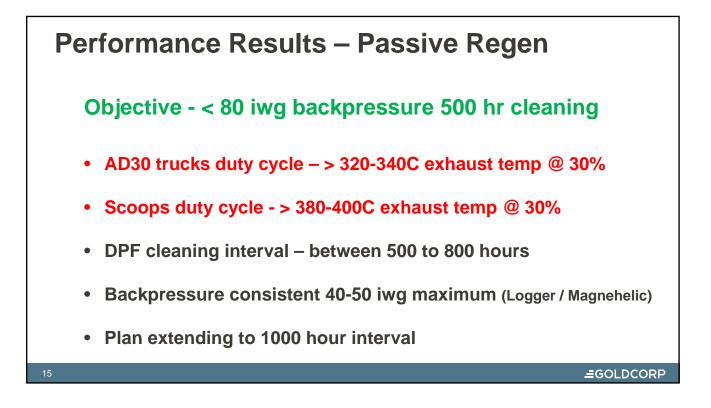


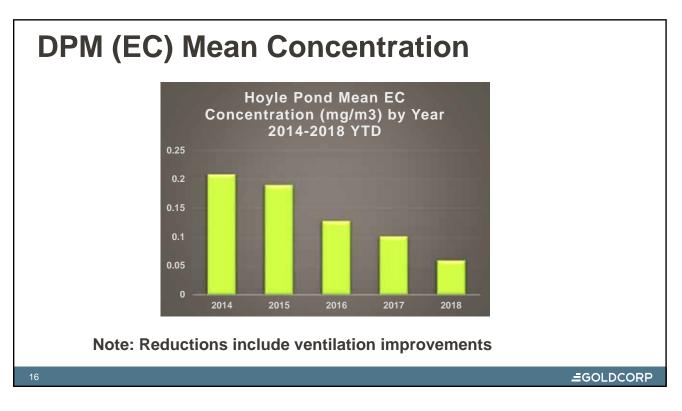


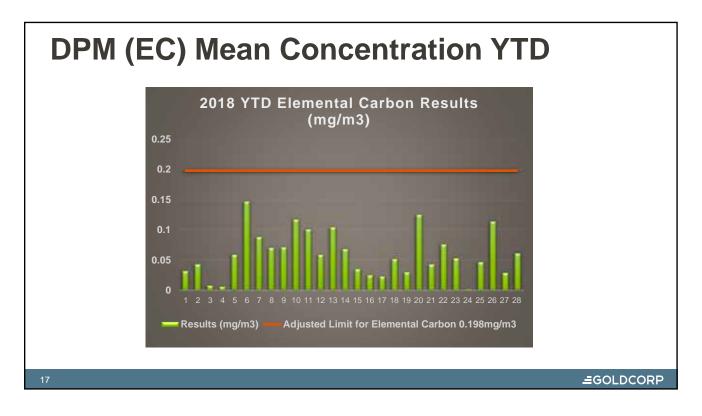


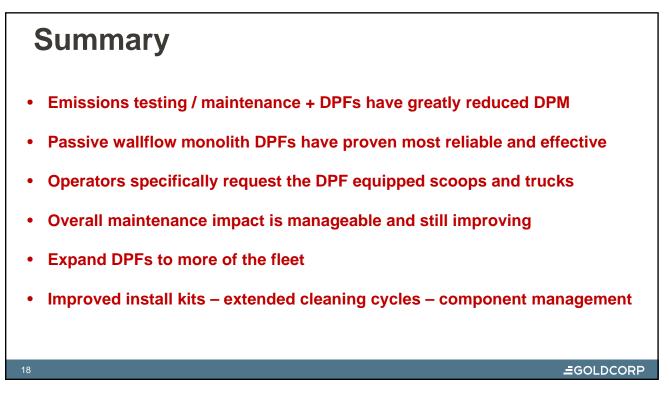












Safe Enough for our Families

They expect you to come home safely. Don't disappoint them.

Thank You!