DIESEL ISO 11/8/7

ULTRA CLEAN & ULTRA DRY

CYLINDER ISO 9001:2015

SUPPLY & REPAIR



ISO 18/16/13 vs ISO 11/8/7
A Smart Decision



About us

- Rhyolite Business sarl is a supply and multi services company registered, based in Lubumbashi, Democratic Republic of the Congo. The company has all the legal papers to do its operations.
- We always provide our customers with world-class services, offering high quality workmanship and fast turnaround time.
- Our company is currently registered and working with the following companies as reference:
- Kamoa Copper Mining SA
- JMMC
- EPIROC DRC SARLU



Main Premise

- ISO 4406 defines fuel purity
- K.F. method determines water/emulsion content
- OEMs have defined an ISO 18/16/13 and 200 ppm water as maximum limit
- The Optimum at the injector is ISO 11/8/7 & below 100 ppm Conclusion: the cleaner and drier the fuel is, the greater economical, technical and environmental benefits.







ISO DEFINITION

INLINE ISO AUDIT FROM

RECEPTION TO

EQUIPMENT





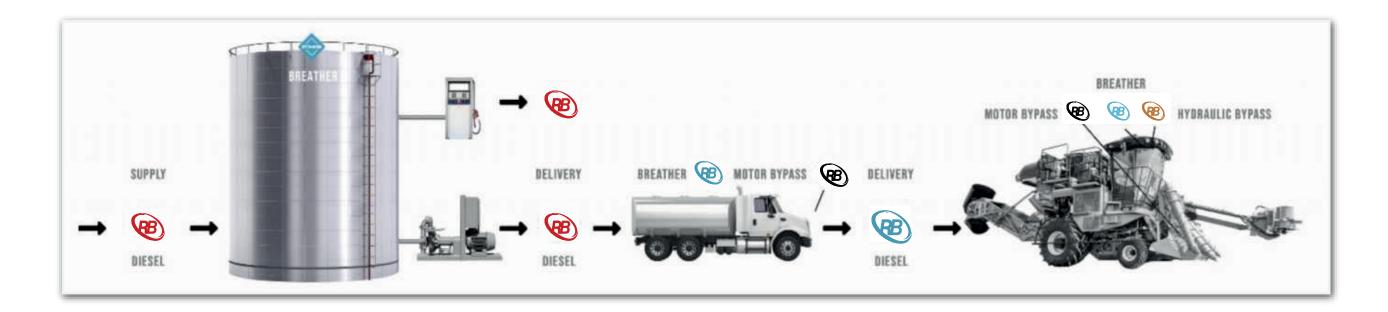
DIAGRAM

CUSTOMIZED CONTROL

OF CONTAMINATION

DIAGRAM SOLUTION

FOR EACH CUSTOMER





IMPLEMENTATION

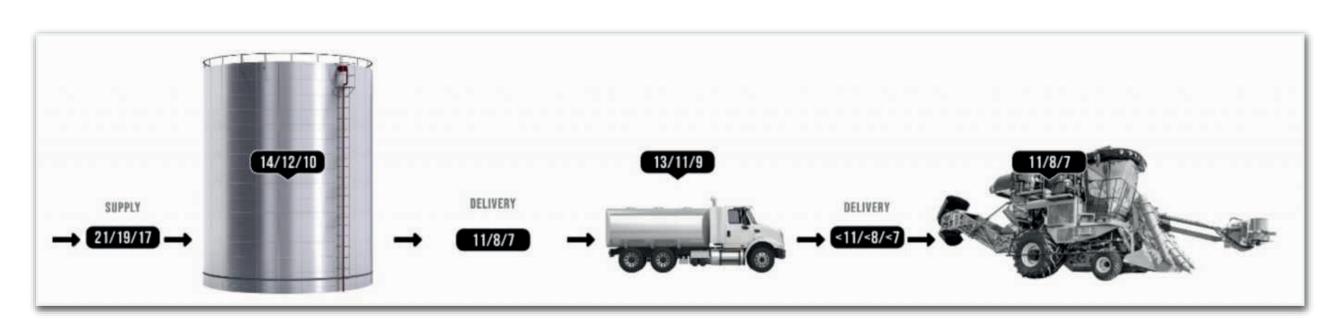
FREE OF CHARGE
HOUSINGS AGAINST
C A R T R I D G E S
CONSUMPTION ALONE





VALIDATION

FULL ISO VALIDATION FROM RECEPTION TO THE DELIVERY NOZZLE -EVERY STAGE







CONVENTIONAL FUEL FILTERS

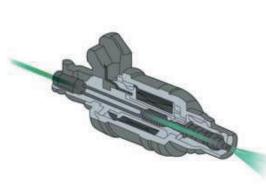
FUEL CONVENTIONAL FILTERS LIFE EXTENSION UP TO 10X (DEPENDING OF FUEL FILTER TYPE)



LUBRICANT

THE LIFE EXTENSION OF THE OIL, AS A CONSEQUENCE OF THE LIFE EXTENSION OF THE ENGINE.

NO MORE CORRECTIVE OIL CHANGE, ALWAYS PREVENTIVE



INJECTOR DOSIFICATION

THE INCORRECT DOSIFICATION OF THE INJECTOR GENERATES POWER LOSS AND INCREASED FUEL CONSUMPTION UP TO 5%.

DIESEL ISO 11/8/7 WILL INCREASE THE LIFE TIEM OF THE INJECTION SYSTEM UP TO 5X.



DPF

5X LIFE EXTENSION OF THE DIESEL PARTICULATE FILTERS.
LESS PRESSURE DROP - LESS FUEL CONSUMPTION.



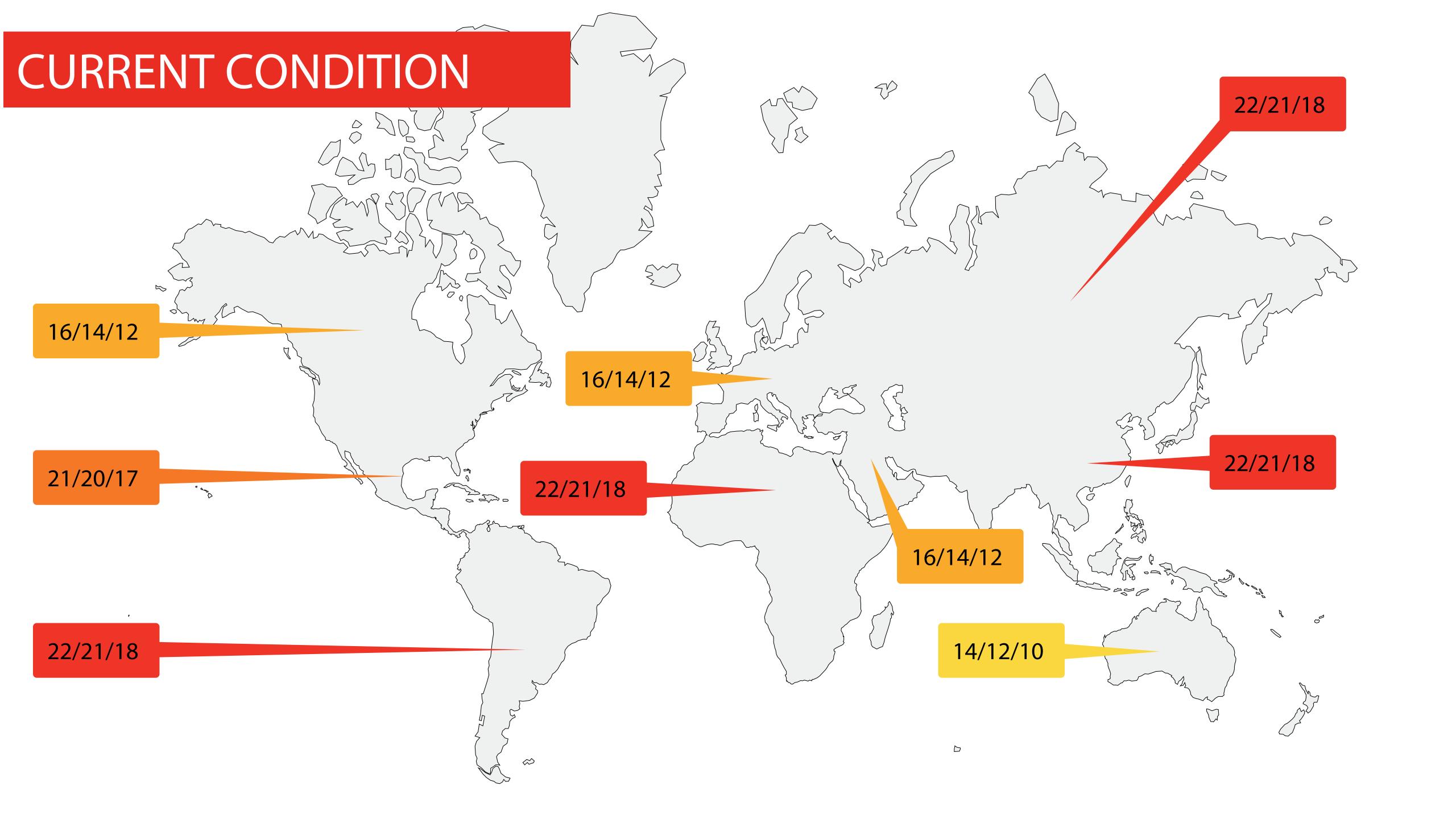
COMPRESSION

CONTAMINATED DIESEL WILL INCREASE WEAR IN THE LINERS.

UP TO 7% OF POWER LOSS IN THE LIFE TIME OF THE ENGINE DUE TO PREMATURE COMPRESSION LOSS.

3X LIFE EXTENSION OF THE ENGINE





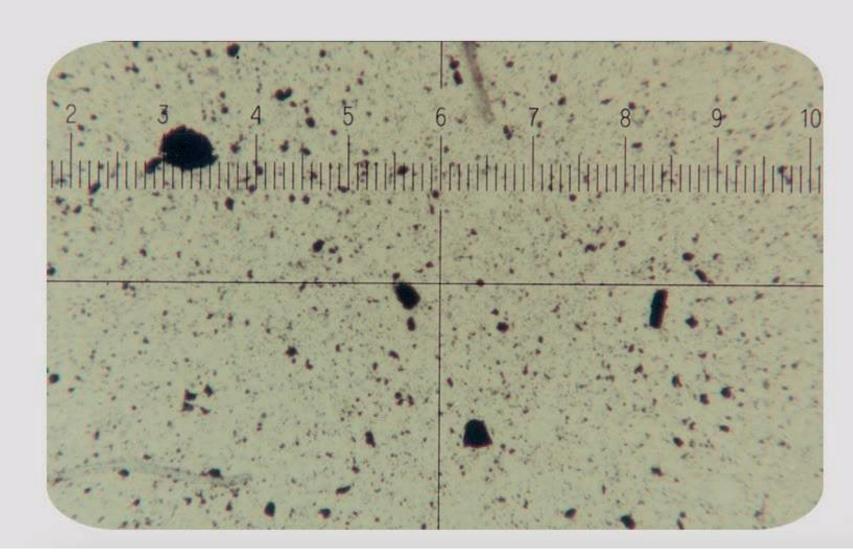
Visual Expression of ISO 4406



22/21/18

More than 4 microns:

20,000-40,000 in 1 milliliter

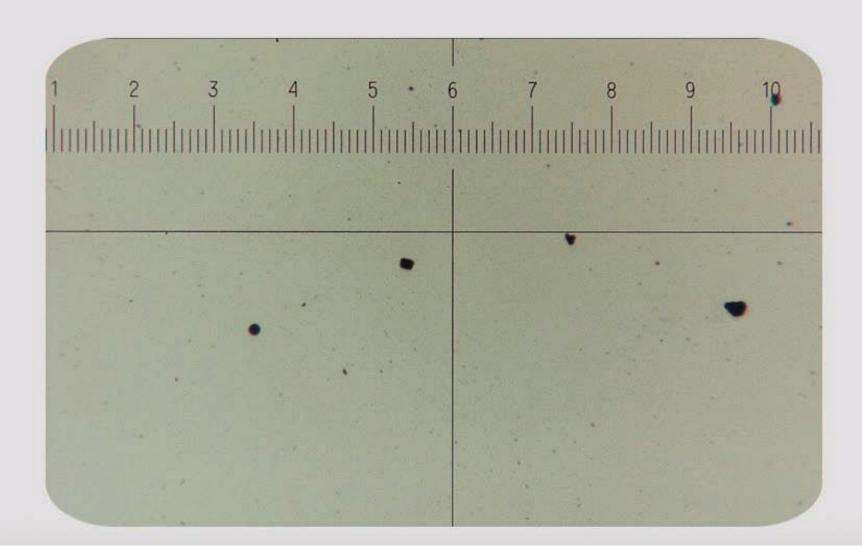




18/16/13

More than 4 microns:

1,300-2,500 in 1 milliliter

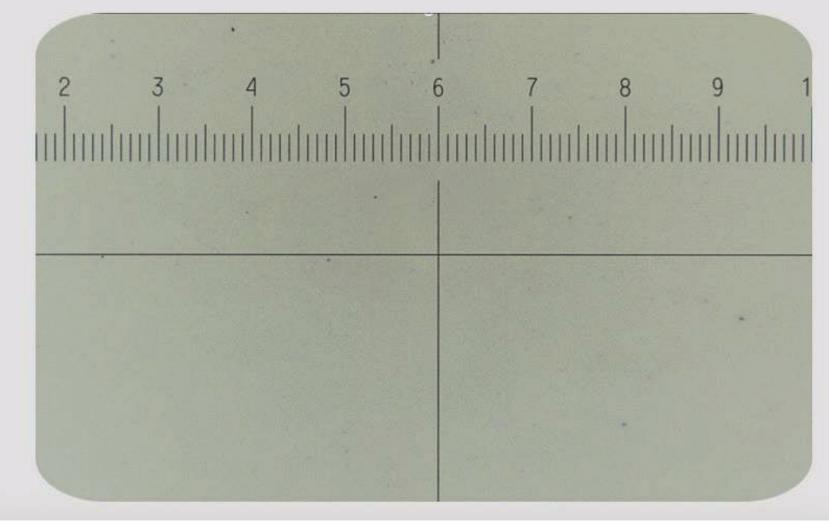




11/8/7

More than 4 microns:

10-20 in 1 milliliter



94% OF THE FILTRATION COST

6% OF THE FILTRATION COST

22/21/18

Average: 473 grams in

10,000 gallons (38,780 liters)

18/16/13

Average: 29 grams in

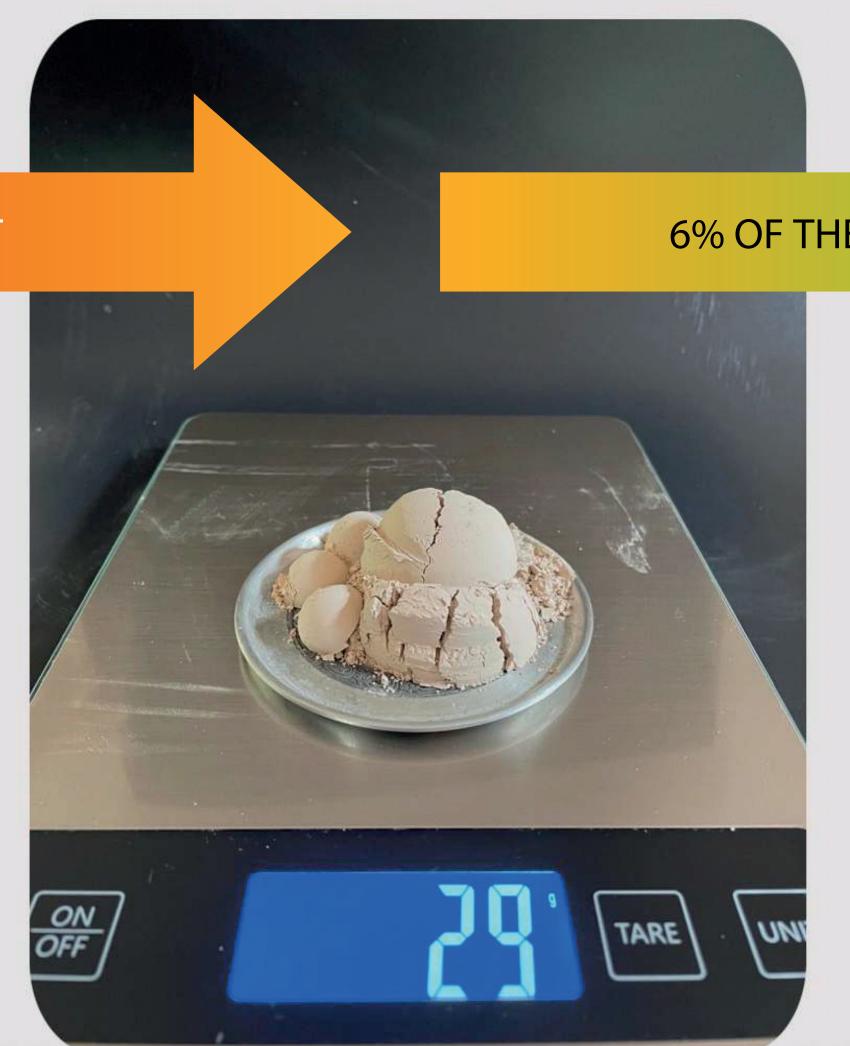
10,000 gallons (38,780 liters)

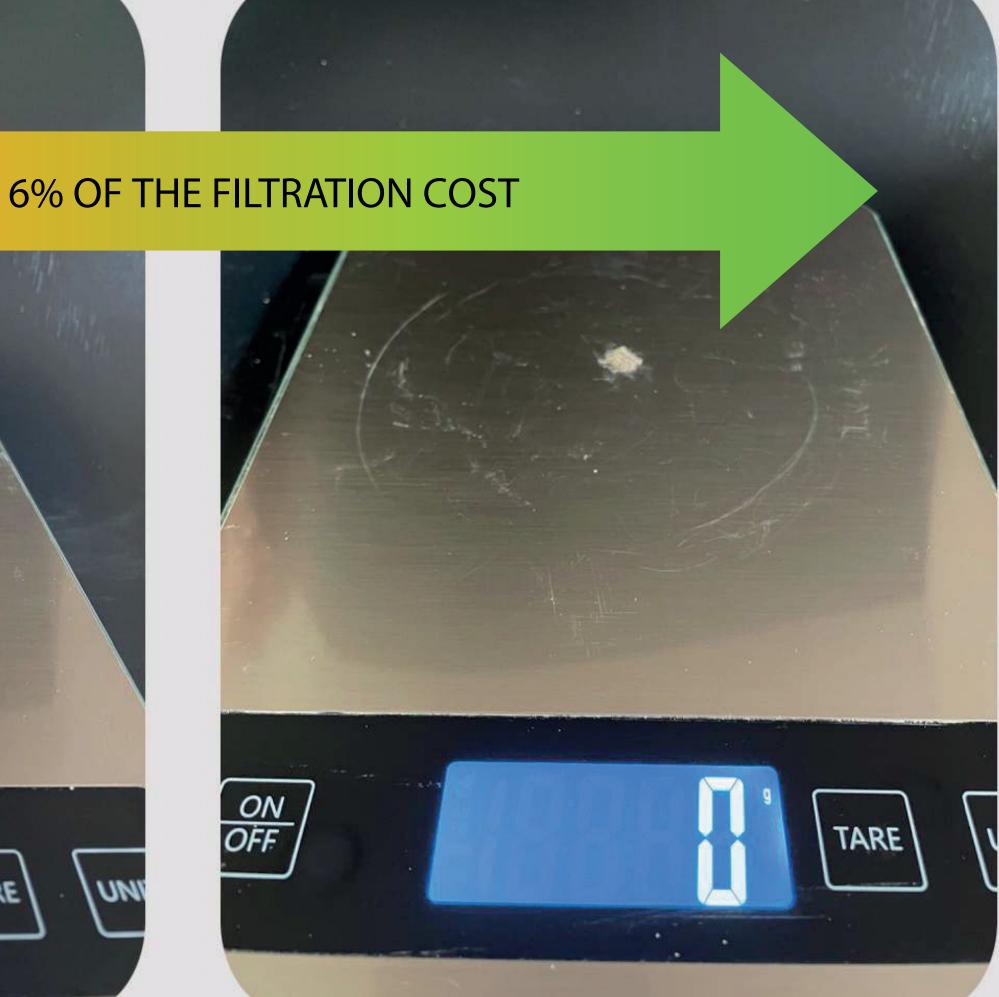
11/8/7

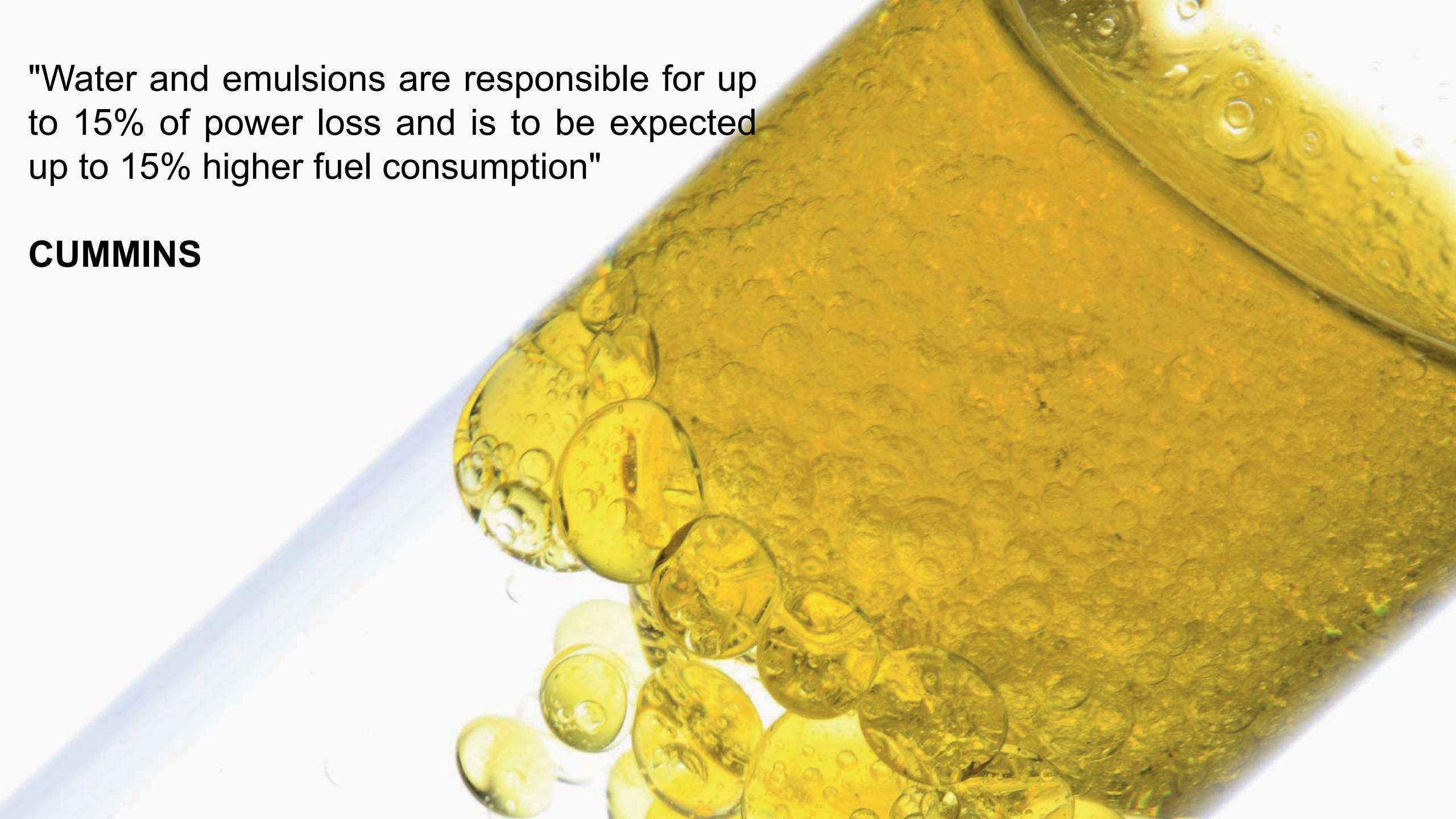
Average: <1 gram in

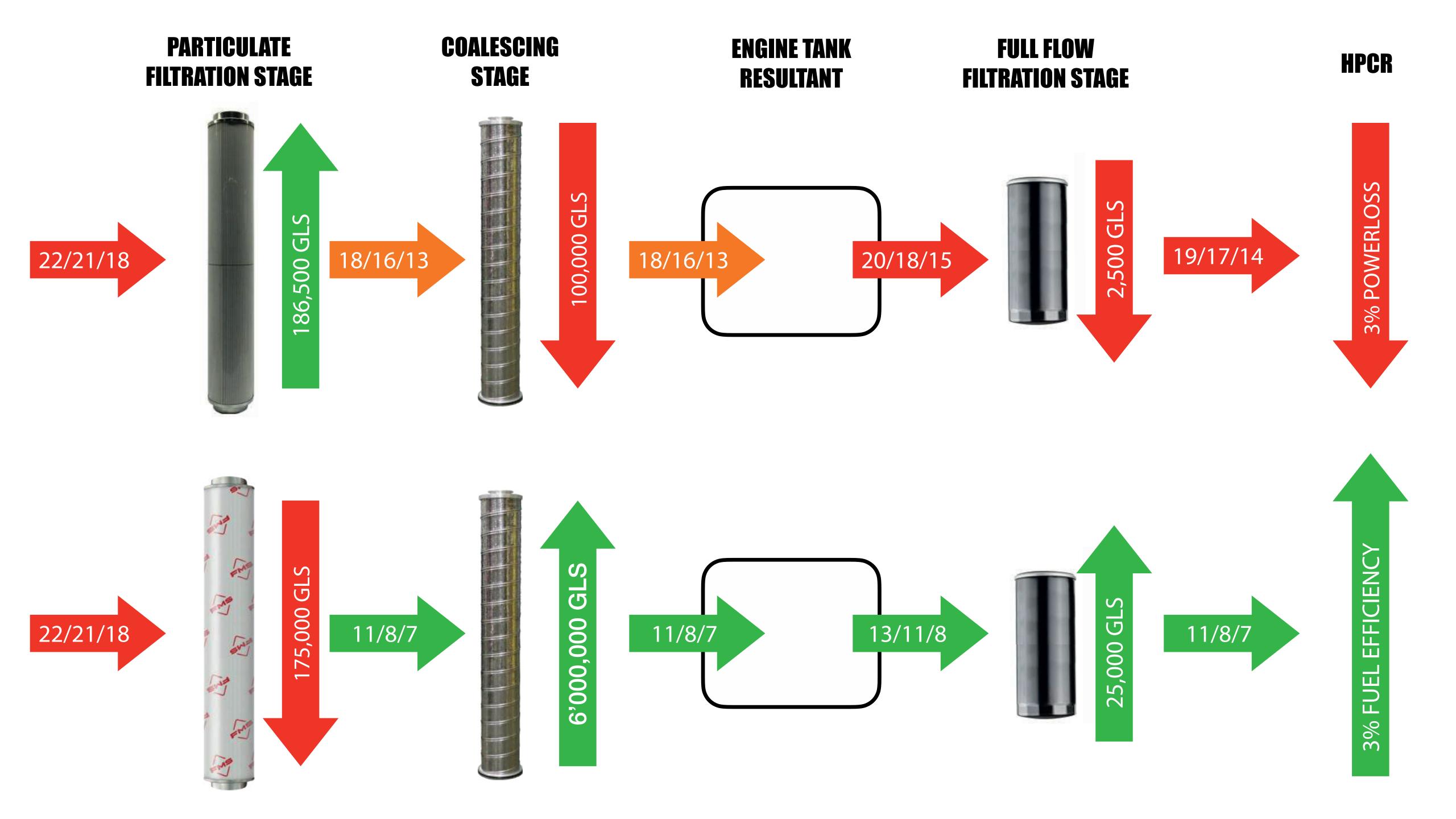
10,000 gallons (38,780 liters)











CONCLUSION

- By supplying an ISO 18/16/13 you are at the LIMIT (worse condition acceptable); this is 64X dirtier than an ISO 11/8/7.
- Coming from an ISO 22/21/18 down to 18/16/13 is 94% cleaner and targeting 11/8/7 is a 6% additional.
- The coalesces will extend the life cicle 64X times with an ISO 11/8/7 and the conventional filters 10X.
- The efficiency of the engine will increase up to 3% with an ISO 11/8/7 vs 18/16/13
- 3X life extension of the injection system



CONCLUSION

When implementing particulate-water-emulsion control, particulate and coalescing filters are required. The cleaner the fuel, the longer the life of the coalescing filters & conventional filters mounted on the engine, meaning a lower total filtration cost with greater economical, technical and environmental benefits.







HYDRAULIC CYLINDER REPAIRS AND ENGINEERING

We provide our customers with high-quality products, excellentafter-sales support, and fast turnaround times.



Capacity

Our qualified artisans and engineers can handle any size or number of hydraulic cylinders that you need to be supplied or repaired.



Speed

We have a dedicated repair team, in-house facilities and strategic partnerships with service providers and suppliers. This allows us to attend to your requests on very short turnaround time.



Quality

Our assurance system is of top-tier quality. ISO 9001: 2015 registered, setting the industry standard for the supply, repair and rebuild of hydraulic cylinders.

