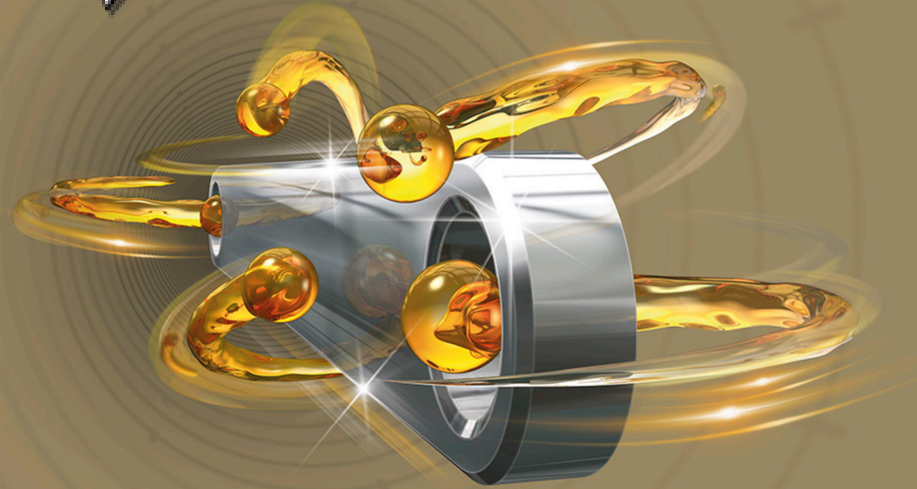




**VECTON**<sup>®</sup>



**Spotlight  
on:**

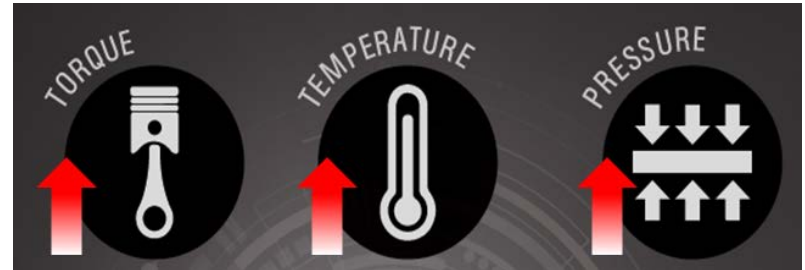
**SYSTEM<sup>PRO</sup>  
TECHNOLOGY<sup>™</sup>**

# VECTON® with System Pro Technology™

- New engines bring new challenges for your oil
- VECTON can give you confidence to take on these challenges
- System Pro Technology means longer useful oil life
- VECTON has minimal viscosity change over 80,000 mile field trial
- Field trial oil analysis at 80,000 miles shows little build-up of wear metals
- Outstanding TBN retention ensures protection against corrosive wear

# New engines bring new challenges for your oil

Modern trucks can generate up to  
**30% higher torque**  
and this is accompanied by  
**increasing temperatures and pressures**



This increase in the harshness of conditions requires the engine oil to work harder to maintain its level of performance and continue to protect the engine

Accelerated oxidation, increased build-up of deposits and rapid depletion of the oil's corrosion resistance can be the consequence, all of which can reduce the ability of the oil to protect the engine

# VECTON<sup>®</sup> can give you confidence to take on these challenges

**SYSTEMPRO**  
TECHNOLOGY™

Up to

**45%**

extra performance reserve\*



**Confidence to safely  
extend your drain  
interval**

Formulated to go above and beyond industry standards in order to give you results that you can see in your oil analysis, drain intervals, and profits.

\*Average of percentages by which VECTON exceeds the industry standard requirement limits in API CK-4 and ACEA E9-16 engine tests for viscosity maintenance, heat protection, deposit control, minimum oil limits, and acid neutralization. In API CK-4 tests only, the VECTON performance reserve is 37%.



# System Pro Technology™ means longer useful oil life

**SYSTEMPRO**  
TECHNOLOGY™

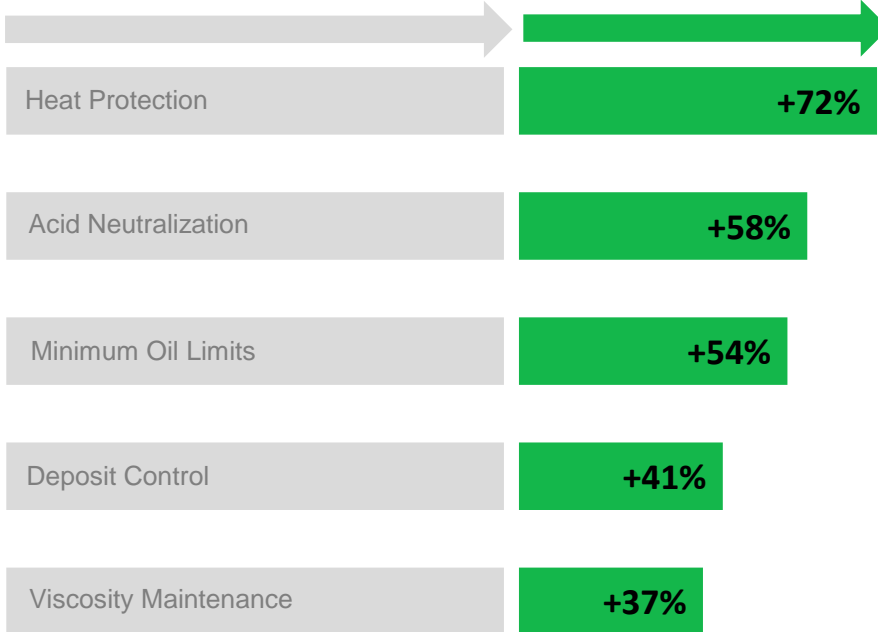
Up to

**45%**

extra performance reserve\*  
for longer useful oil life

Industry Standard

VECTON Improvement

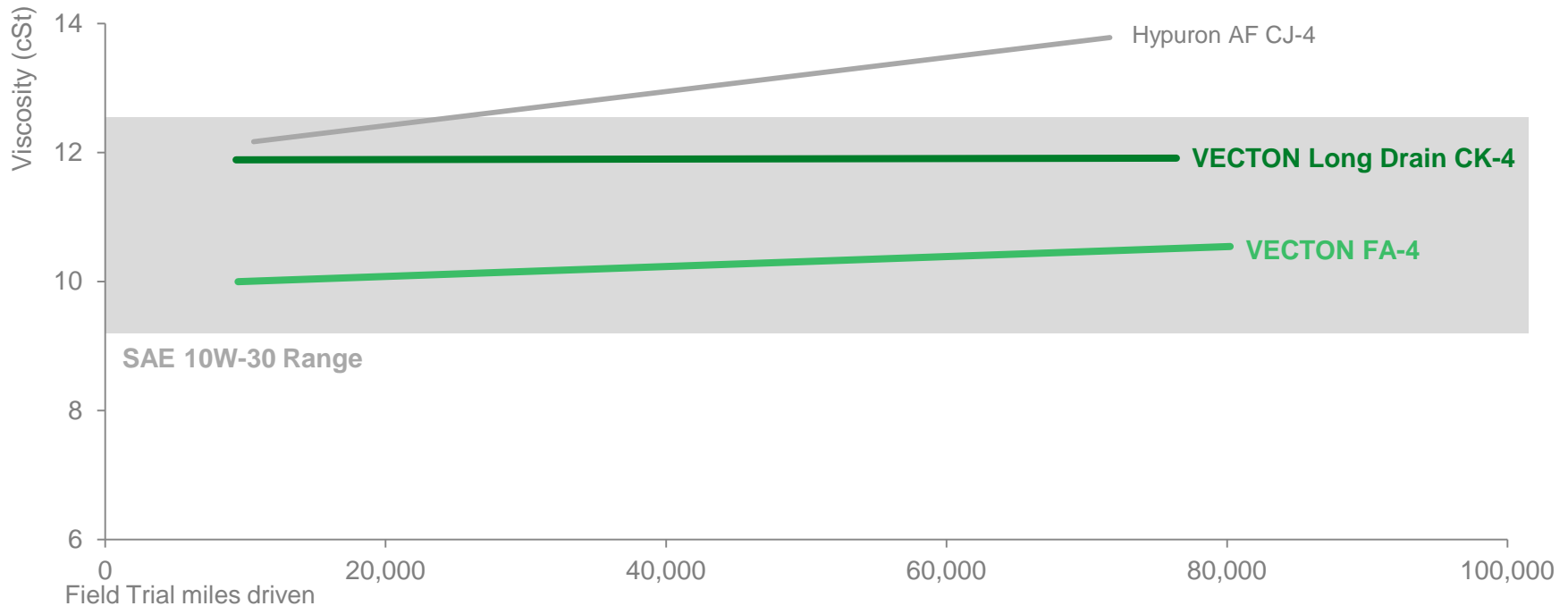


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# VECTON<sup>®</sup> has minimal viscosity change over 80,000 mile field trial

Vecton Long Drain 10W-30 CK-4 has **<1% viscosity change**

Vecton 10W-30 FA-4 has 6% viscosity change



Measurement of viscosity (cSt) at 100C during US-based field trials with distances measured in miles driven. SAE 10W-30 range is 9.3-12.5 cSt.

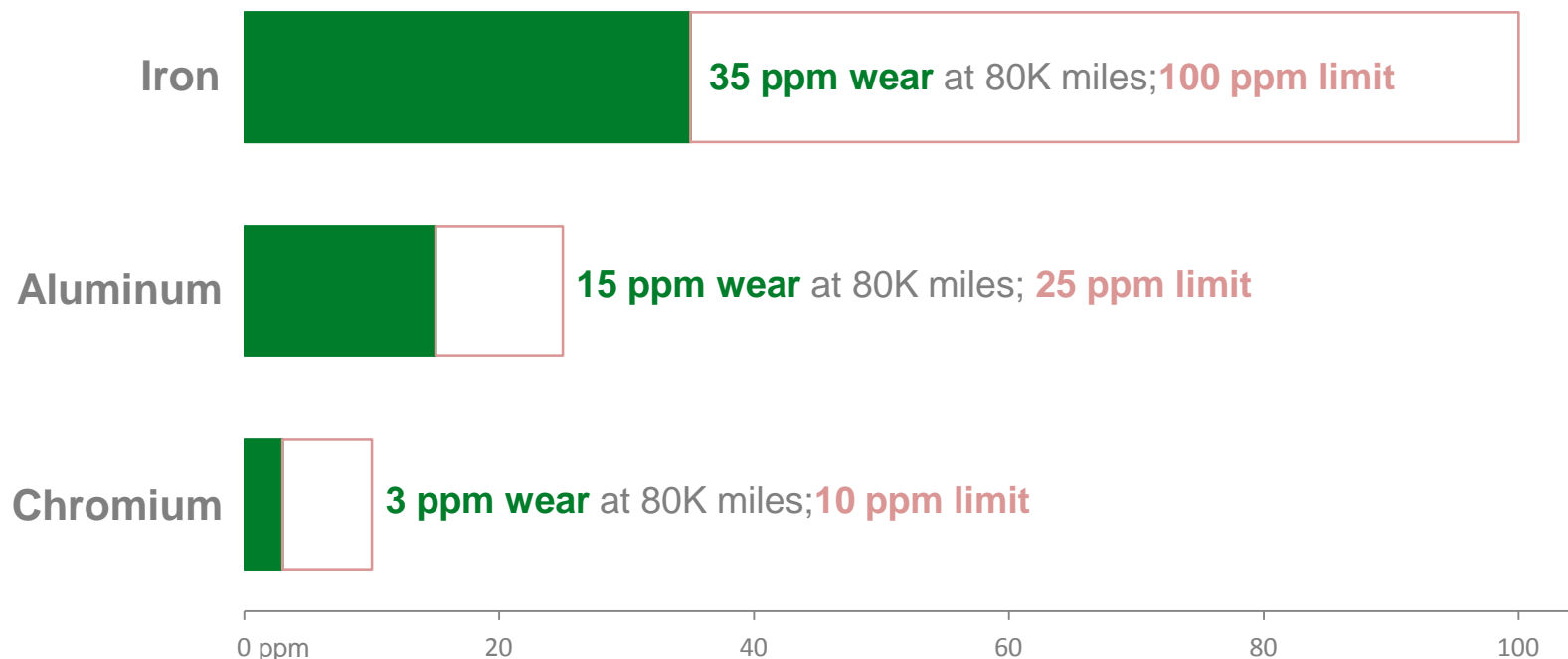


[bptargetneutral.com](http://bptargetneutral.com)



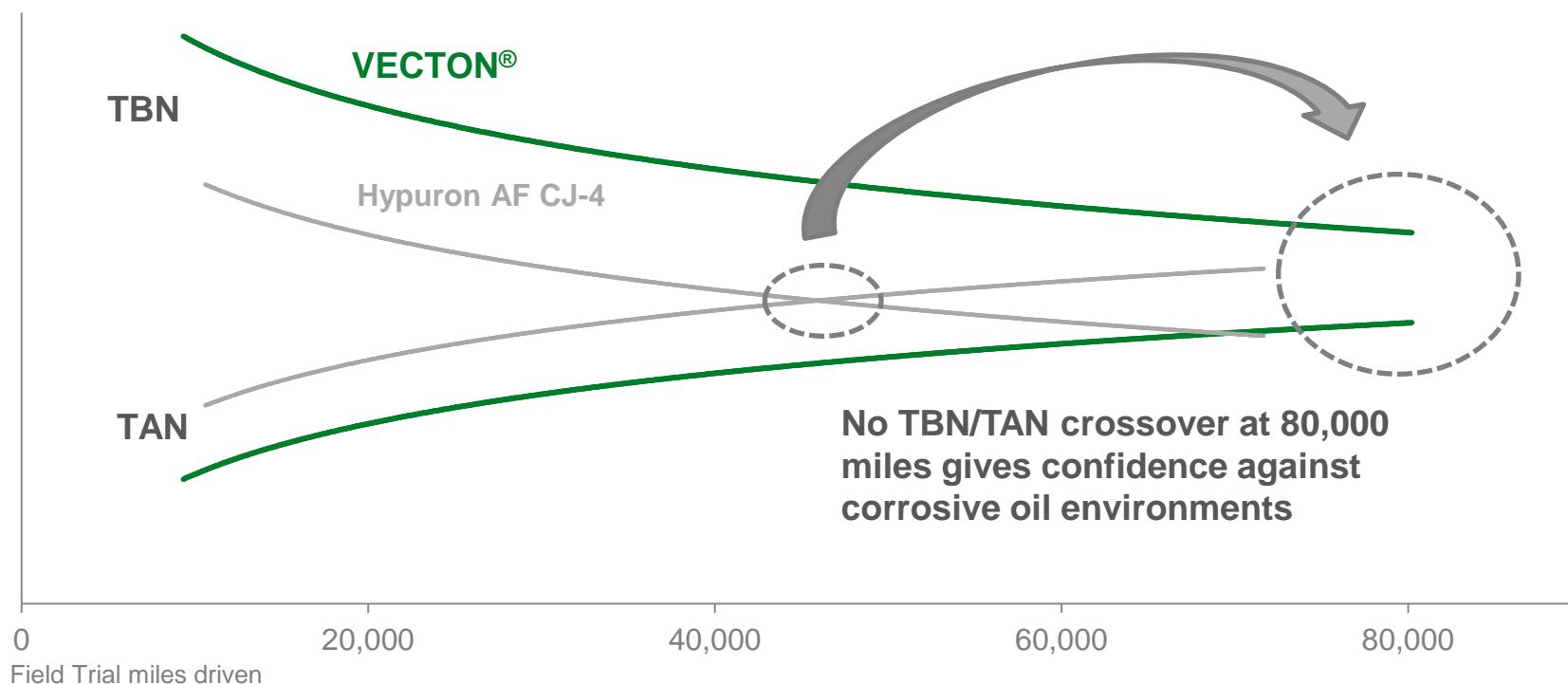
# Field trial oil analysis at 80,000 miles shows little build-up of wear metals

During US field trial, System Pro Technology™ keeps wear under control; key wear metal values remain well under typical used oil limits



Wear metal analysis by ASTM D5185 from US-based field trial samples taken from 70,000 miles to 80,216 miles driven

# Outstanding TBN retention ensures protection against corrosive wear



Total base number measured by ATSM D4739, Total acid number measured by ASTM D664 from samples taken during US-based field trial



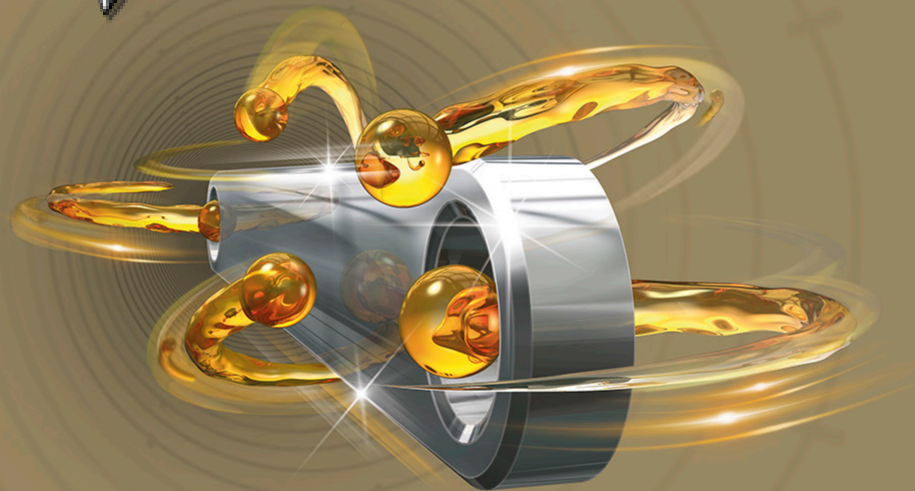
# VECTON® with System Pro Technology™

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**VECTON<sup>®</sup>**



**SYSTEM<sup>PRO</sup>**  
**TECHNOLOGY<sup>™</sup>**

# Appendix – System Pro Category Definitions

**Viscosity Maintenance:** Parameters related to shearing, oxidative viscosity increase and soot thickening

**Heat Protection:** Resistance to oxidation and high-temperature deposit formation

**Deposit Control:** Resistance to deposit formation, such as piston deposits, sludge and engine varnish

**Minimum Oil Limits:** Parameters used by OEMs as approved test limits in field trials; also, parameters noticeable to a vehicle operator, such as oil pressure

**Acid Neutralization:** Parameters related to TBN retention and prevention of corrosive wear

# Appendix – OEM Approvals

Vecton Long Drain 10W-30 CK-4 & Vecton 15W-40 CK-4	Vecton 10W-30 FA-4
API CK-4 JASO DH-2 CAT ECF-3 Cummins CES 20086 DDC DFS 93K222 Deutz DQC III-10-LA Ford WSS-M2171-F1 Mack EOS-4.5 RVI RLD-4 Volvo VDS 4.5	API FA-4 Cummins 20087 DDC DFS 93K223

# Appendix – VECTON® with System Pro Technology™ Brand 1-2-3

1

## THE PROBLEM SET-UP

Modern trucks use new technologies to make as much as 30% higher torque, but that also brings higher engine temperatures and pressures. This punishes the oil, pushing it closer to breakdown, reducing its useful life.

2

## THE REASON TO BELIEVE

Castrol VECTON's System Pro Technology™ has an extra performance reserve that fights oil breakdown and also adapts to higher temperatures. That means longer useful oil life, giving you confidence in your maximum drain interval.

3

## THE UNIQUE SELLING POINT

Maximize Your Drain Intervals. Maximize Profits.



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