



## TCC (Typical Chemical Characteristics)

### HERCULES F4 UHPD SAE 10W-40 & 10W-30

#### Description:

EN:  
Synthetic engine oil with Full SAPS technology, suitable for ultra high performance diesel (UHPD) engines meeting Euro I, Euro II, Euro III, Euro IV & Euro V. It is recommended for use in engines without particulate filters, equipped with EGR or equipped with SCR NOx reduction system.

EL:  
Συνθετικό λιπαντικό κινητήρων με Full SAPS τεχνολογία, ιδανικό για πετρελαιοκινητήρες υπέρ υψηλής απόδοσης (UHPD). Συνιστάται για κινητήρες χωρίς φίλτρα σωματιδίων και για κινητήρες εφοδιασμένους με συστήματα EGR ή SCR NOx όπου απαιτείται η τεχνολογία Full SAPS.

DE:  
Synthetisches Motoröl der Full SAPS- Technologie für Hochgeschwindigkeits- und Ultra-Hochleistungs-Dieselmotoren (UHPD) nach Euro I, II, III, IV & V. Empfohlen für Motoren ohne Partikelfilter und mit EGR und SCR NOx Reduktionssystemen.

FR:  
Huile moteur synthétique de la technologie Full SAPS pour moteurs diesel de grande vitesse et de très haute performance (UHPD) répondant aux Euro I, II, III, IV et V. Recommandée pour les moteurs sans filtres à particules, avec EGR et système de réduction SCR NOx.

RU:  
Синтетическое моторное масло, изготовленное по технологии Full SAPS и предназначенное для высокоскоростных и сверхмощных дизельных двигателей (UHPD), соответствующих классам Евро I, II, III, IV и V. Рекомендуется для двигателей без сажевых фильтров, с системами рециркуляции ОГ и системами очистки от оксидов азота на основе селективного каталитического восстановления.

RS Laboratory: 09.12.2022

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### HERCULES F4 UHPD SAE 10W-40 & 10W-30

#### Characteristics:

Property	Method	Unit	10W-40	10W-30
Code	-	-	RDHF4104	RDHF4103
Specific Gravity 15°C	ASTM D 1298	kg/L	0,878	0,870
Viscosity at 100°C	ASTM D 445	cSt	12,5 - 16,3	9,3 - 12,5
Viscosity Index	-	-	>140	>140
Pour Point	ASTM D 97	°C	<-30	<-30
Flash Point	ASTM D 92	°C	>210	>205
Total Base Number	ASTM D 2896	mgKOH/g	>12,5	>12,5
Color	-	-	Crystal gold	Crystal gold
Cold Cranking Simulator	ASTM D 5293	mPa-s	<7000 @ -25°C	<7000 @ -25°C

#### Specifications:

##### SAE 10W-40:

ACEA: E4,

MAN M3277/M3377,

MB p228.5 & MTU Type 3

5L	18L	60L	204L
324104057	324104187	324104607	324104247

##### SAE 10W-30:

ACEA: E4,

MAN M3277/M3377,

MB p228.5 & MTU Type 3

5L	18L	60L	204L
324103057	324103187	324103607	324103247

#### Package:

4x5L Carton / 1x18L Pail / 1x60L Mini-Drum / 1x204L Drum



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