

DURATRAN og DURATRAN XL SYNTHETIC BLEND TRANSMISSION/HYDRAULIC OLIER

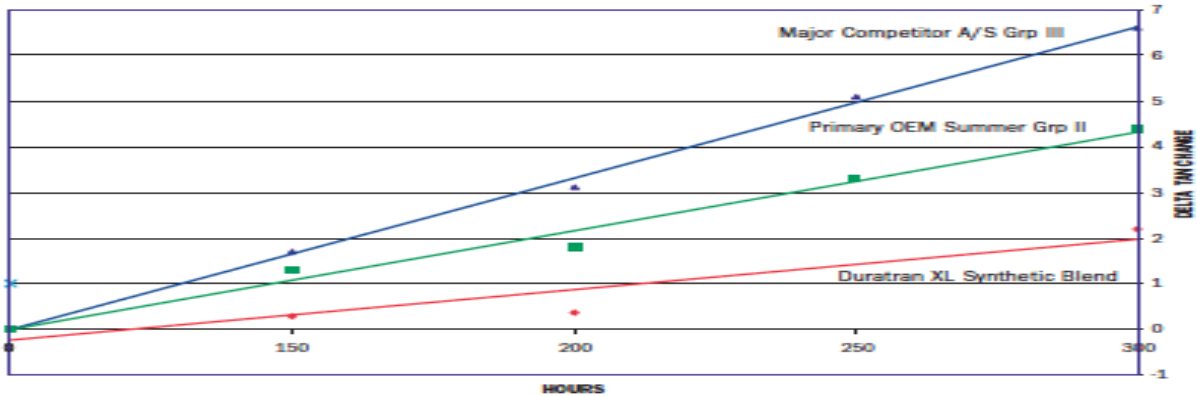
Introduktion

Petro-Canada DURATRAN og DURATRAN XL Synthetic Blend er til transmission / hydraulikolier til landbrug, minedrift, skovbrug og Entreprenørmaskiner med et fælles oliesystem til transmission, differentiale, sludrev, hydraulisk, kraftudtag, våde bremses og servostyring. DURATRAN produkt program er formuleret med de 99,9% ren krystallære HT forarbejdet baseolier i kombination med minimal viskositetsindeksforbedrende middel og et forspring additiv pakke. Denne formulering giver exceptionel ydelse overgår udstyr producentens specifikationer og krav.

Funktioner og fordele

- Overlegen slidbeskyttelse
 - Minimerer og mindsker slid på transmission, differentiale, og endelig drev gear ved forhøjede temperaturer reducerer behovet for reservedele
 - Overlegen gear og lejer slidbeskyttelse under tilstedeværelse af vandforurening
 - Mindre komponent slid reducerer vedligeholdelsesomkostningerne giver mulighed for øget drift tid og pålidelighed
 - Udvidede serviceintervaller, hvilket reducerer behovet for sæsonmæssige olieskift (DURATRAN XL Synthetic Blend)
- fremragende smøreevne ved lave temperaturer
 - Bedre koldt vejrs drift ned til temperaturer under -40 ° C (-40 ° F) (DURATRAN XL Synthetic Blend) eller temperaturer under -35 ° C (-31 ° F) (DURATRAN)
 - Ekstra beskyttelse for smurte komponenter i koldt vejr drift
- Overlegen friktionsegenskaber
 - Optimere driften af våde bremses, koblinger og power-shift mekanismer
 - Tillader overlegen kobling og transmission ydeevne for mere jævne udstyr operationer
- Long Life Protection
 - Overlegen modstand mod høj temperatursvæske nedbrydning
 - Overlegen oxidation stabilitet medfører resistens over for viskositet stigning og syre dannelse ved forhøjede temperaturer
 - Overlegen modstand mod ophobning af slam og lak på transmission og hydrauliske komponenter i længere skifteintervaller
 - Overgår Allison C-4 oxidation test samt den mere krævende ABOT oxidation test, der anvendes i Automatic Transmission Fluid valideringer

**Aluminum Beaker Oxidation Test - ABOT (Delta TAN)
Duratran XL Syn Blend vs Major JDM J20C Summer and Competitor A/S**



*Note: Results are after 300 hr ABOT Oxidation Test which is more severe than JD requirement Allison C-4 (GM 6137M) Oxidation Test.

Applikationer

Petro-Canada DURATRAN og DURATRAN XL Synthetic Blend anbefales til brug i landbrug, minedrift, skovbrug og Entreprenørmaskiner der bruger et fælles oliesystem til transmission, bagtøj, hydraulisk, kraftudtag, våde bremse- og servostyring.

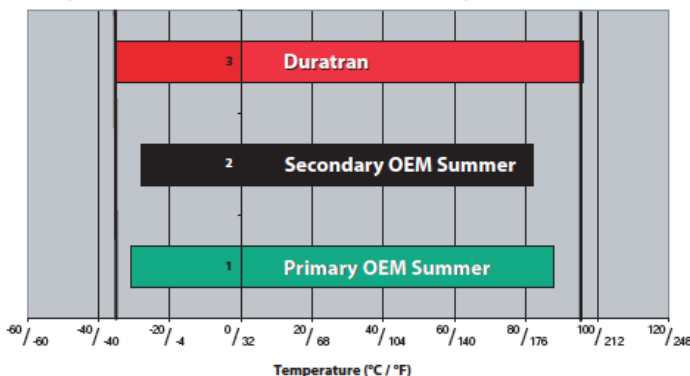
DURATRAN er bedst egnet til landbrug applikationer, hvor diverse OEM landbrugsudstyr og / eller ekstreme sommer klima driftsbetingelser er til stede.

DURATRAN XL Synthetic Blend er bedst egnet til minedrift, skovbrug, byggeri og opdræt applikationer, hvor udstyret anvendes i både varme og kolde temperaturer. Et produkt for forlængede sæsoner.

**Summer Grade Tractor Hydraulic Fluids
System Oil Operating Temperature Range**

Low Temperature Limit: low temperature flow @ 20,000cP

High Temperature Limit: temperature after KRL (20hr) Shearing where Viscosity = 9.1cSt *

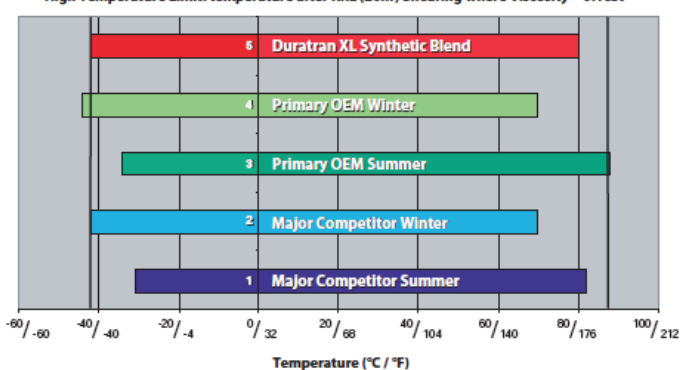


*Minimum viscosity is 9.1cSt @ 100°C. The after-shear temperature at 9.1cSt shows the stability of the fluid (higher is better).

**Summer/Winter Grade Tractor Hydraulic Fluids
System Oil Operating Temperature Range**

Low Temperature Limit: low temperature flow @ 20,000cP

High Temperature Limit: temperature after KRL (20hr) Shearing where Viscosity = 9.1cSt *



*Minimum viscosity is 9.1cSt @ 100°C. The after-shear temperature at 9.1cSt shows the stability of the fluid (higher is better).

Farm Tractor Fluids

MANUFACTURER	CURRENT SPECIFICATION	MEETS OLDER SPECIFICATIONS
JOHN DEERE	JDM J20C (DURATRAN) JDM J20D (DURATRAN XL)	JDM J20A, JDM J14B, JD 303 Fluid (DURATRAN) JDM J20B, JDM J14C, JD 303 Fluid (DURATRAN XL)
MASSEY-FERGUSON	M-1135, M-1141, M-1143 M-1145* (DURATRAN only) (*Note: For UTTO applications only. Do not use in STOU applications.)	M-1129-A, M-1127-A/B, M-1110
CNH (CASE I.H., J.I. CASE NEW HOLLAND GROUP)	MS-1209/MAT 3505, MS-1210/JIC-145/ MAT 3506, MS-1230/CNH MAT 3509, ESN-M2C134-D/MAT 3525	MS-1207, MS-1206, MS-1205, MS-1204/ JIC-185, B-6, B-5, JIC-144, JIC-143 FNHA-2-C-201.00 (DURATRAN) FNHA-2-C-200.00 (DURATRAN XL) ESN-M2C134-A/B/C, ESN-M2C86-B/C, ESN-M2C53-A, ESN-M2C48-B
KUBOTA	Kubota UDT Fluid	—
WHITE FARM (OLIVER)	Q-1826, Hydraulic Transmission Fluid (HTF)	Q-1802, Q-1766B, Q-1722, Q-1705
AGCO Deutz ALLIS ALLIS	Power Fluid 821XL 272843	257541 246634
STEIGER	Hydraulic/Transmission Fluid, SEMS 17001	—
VERSATILE	ESN-M2C134-D	Hydraulic/Gear Fluid Spec 24M Spec 23M
LANDINI	Tractor II Hydraulic Fluid	—
HESSTON FIAT	Oliofiat Tutela Multi-F	AF-87
VOLVO	WB 101	—
ZF TRANSMISSIONS	TE-ML 03, -03E; -05F; 6K; -06K; -21F (axles) (DURATRAN) TE-ML 03E; -05F; -21F (axles) (DURATRAN XL)	—

Transmissions, Differentials and Hydraulics

MANUFACTURER	CURRENT SPECIFICATION	MEETS OLDER SPECIFICATIONS
SUNDSTRAND	Hydrostatic Transmission Fluid	—
ALLISON	Type C-4 Fluid	C-3 Fluid
CATERPILLAR	—	TO-2
DRESSER CONSTRUCTION EQUIPMENT DIVISION	Transmission/Hydraulic Fluid	—
PARKER/ABEX/DENISON	Hydraulic Fluid-HF-0/1/2	—
EATON/VICKERS	M-2950-S, 1-286-S	—
PLESSEY-SUNDSTRAND	Hydraulic Fluid	—
CLARK	Lift Truck Transmission Fluid TA12, TA18	HR 500 (DURATRAN XL) HR 600 (DURATRAN)

Typical Performance Data

PROPERTY	TEST METHOD	DURATRAN	DURATRAN XL
Flash Point, COC, °C / °F	ASTM D92	239 / 462	219 / 426
Kinematic Viscosity cSt @ 40°C / SUS @ 100 °F cSt @ 100°C / SUS @ 210 °F	ASTM D445 CEC-L-45-T-93	60.1 / 307 9.5 / 57.9	39.2 / 198 8.3 / 53.6
High Temp / High Shear Viscosity cP @ 150°C / 302 °F	ASTM D4682	2.9	2.6
Viscosity Index	ASTM D2270	140	195
Brookfield Viscosity cP @ -20°C / -4 °F cP @ -35°C / -31 °F cP @ -40°C / -40 °F	ASTM D2983	2,670 23,700 61,200	1,300 — 13,500
Pour Point, °C / °F	ASTM D5950	-45 / -49	-50 / -58
Vickers Pump Wear	ASTM D2882	Pass	Pass
Total Base Number (TBN)	ASTM D2896	10.6	10.4
KRL Shear Testing after 20 Hr, viscosity cSt @ 100°C/212°F	CEC-L-45-T-93	8.2	6.1
ABOT, 155°C/311°F / 300 hr, Tan Increase	FORD Merc V	1.7	2.2
John Deere Tests			
Shear Stability Test	JDQ 102	8.45	6.9
Rust Test – Humidity Cabinet (49°C / 120 °F), 100% R.H.	JDM J20C	Pass	Pass
Oxidation Stability Test	JDQ 23	Pass	Pass
Oil Compatibility Test	JDQ 23	Pass	Pass
Compatibility Sensitivity Test	JDQ 19	Pass	Pass
Foam Test	JDQ 33	Pass	Pass

The values quoted above are typical of normal production. They do not constitute a specification.