

Certificate of Quality no: J23120029

Product name: Platinum Ultor Complete 10W-40

Batch no.: J23120029

Specifications according to: WT-2016/OO-939

Research unit: Orlen Laboratorium S.A.

Ordering unit: ORLEN Oil sp. z o.o.

Sample no.: 23JOO/2355

Control number: 23JOO/A/2611

Tank no: M-1/2

Date of the test: 06-12-2023

FULL SPECIFICATION TEST

No.	Properties	Unit	Standard	Result
1	Kinematic viscosity at 100 °C	mm ² /s	PN-EN ISO 3104:2021-03	15.49
2	alkaline number	mgKOH/g	PN-ISO 3771:2012	10.60
3	structural viscosity at -25 °C	mPa*s	PN-C-04150:2004	6520.00
4	Density at 15 °C	g/ml	PN-EN ISO 3675:2004	0.8678
5	content of sulphate ash	%(m/m)	PN-ISO 3987:2014-05	0.98
6	Stability of foam at 95 °C	ml	PN-ISO 6247:2009 sek II	0.00
7	The tendency to foaming - the volume of foam at 95 °C	ml	PN-ISO 6247:2009 sek II	10.00

Created by: Bachta Czesław

Created on:

06-12-2023

****CERTIFICATE of QUALITY** Copy**

Control No: 955 / 2023 For:
Tank No.: 412
Sample No 955 / 2023
Delivery doc:
Packing, Tank

GREASE UNILIT ŁT4 EP-2

Lp: PROPERTY	RESULTS	UNITS	TEST METHOD
1 Worked Penetration 25 deg C	279	1/10 mm	ASTM D 217

Certificate of Quality may be duplicated only as a whole.
Laboratory test ECOL Sp. z o.o. Draw certificate date: 16-03-2023
Manufacturer: LOTOS OIL SP. Z O.O.
Product does meet requirements of the contract: WT 101/04 wyd.9
Confirm certificate - name: ECOL - Kubacki Jakub
Publish certificate - name: **Stachura Tomasz DC 03**

****CERTIFICATE of QUALITY** Copy**

Control No: 853 / 2023 For:
Tank No.: 15V024
Sample No 853 / 2023
Delivery doc:
Packing, Tank

SIGMUS L- DAB 150

Lp	PROPERTY	RESULTS	UNITS	TEST METHOD
1	Kinematic viscosity at 40° C	146	mm2/s	ASTM D 445-21e1 (A)
2	Kinematic viscosity at 100° C	14.520	mm2/s	ASTM D 445-21e1 (A)
3	Viscosity Index	97		ASTM D 2270-10(2016)
4	Copper corrosion, 100°C, 3h	1	stop.kor.	ASTM D 130-19 (A)
5	Pour point	-12	° C	ASTM D 97-17b
6	Flash Point COC	268	° C	ASTM D 92-18
7	Water	<0,05	% [m/m]	ASTM D 95-13(2018)
8	Ash	0.000	% [m/m]	ASTM D 482-19
9	Demulsibility at 82° C			ASTM D 1401-21
	-volume of oil	40	ml	
	-volume water	40	ml	
	-volume of emulsion	0	ml	
	-time of separability	15	min	
10	Rust	rust free		
11	Oxidation Stability			ASTM D 665-14e1
	-Evapor, Loss	3	% [m/m]	DIN 51352
	-Micro Carbon Residue	2.88	% [m/m]	
12	Total Acid Number	0.29	mg KOH/g	ASTM D 4530-15(2020)
13	Density, at 15,0° C	0.8830	g/cm3	ASTM D 664-18e2 ASTM D 4052-22

Certificate of Quality may be duplicated only as a whole.

Laboratory test LOTOS Lab Sp. z o.o. Draw certificate date: 09-03-2023

Symbol (A) in the standard column - The tests were performed by LOTOS Lab Ltd. accredited in this respect by the PCA, No. AB 474

Manufacturer: LOTOS OIL SP. Z O.O.

Product does meet requirements of the contract: WT 13/16 wyd.1

Confirm certificate - name: Besler Pawel

Publish certificate - name: **Stachura Tomasz DC 03**

CERTIFICATE of QUALITY Copy

Control No: 4697 / 2022 For:
 Tank No.: 224/91
 Sample No 4697 / 2022
 Delivery doc:
 Packing, Tank

GEAR OIL GL-4 SAE 80W-90

Lp	PROPERTY	RESULTS	UNITS	TEST METHOD
1	Kinematic viscosity at 100° C	14.3	mm ² /s	ASTM D 445-21e1
2	Pour point	-33	° C	ASTM D 97-17b
3	Flash Point COC	242	° C	ASTM D 92-18
4	Density, at 15,0° C	0.8772	g/cm ³	ASTM D 4052-22
5	Kinematic viscosity at 40° C	144.78	mm ² /s	ASTM D 445-21e1
6	Viscosity Index	96		ASTM D 2270-10(2016)
7	Corrosion for Synthetic Sea Water	rust free		ASTM D 665-14e1
8	Foaming			ASTM D 892-18
	-tendency at 24 deg C	0	ml	
	-tendency at 93 deg C	0	ml	
	-tendency at 24°C ex 93,5°C	0	ml	
9	Stability			
	-at 24° C	0	ml	ASTM D 892-18
	-at 93,5° C	0	ml	
	-at 24° C ex 93,5° C	0	ml	

Certificate of Quality may be duplicated only as a whole.

ECOL Sp. z o.o. Draw certificate date: 28-10-2022

ECOL Sp. z o.o.

Manufacturer: LOTOS OIL SP. Z O.O.

Product does meet requirements of the contract: WT 32/05 wyd.4

Confirm certificate - name: ECOL - Kubacki Jakub

Publish certificate - name: **Stachura Tomasz DC 03**

****CERTIFICATE of QUALITY** Copy**

Control No: 4628 / 2022 For:
Tank No.: 225/95
Sample No 4628 / 2022
Delivery doc:
Packing, Tank

LOTOS TITANIS GL-5 SAE 80W/90

Lp	PROPERTY	RESULTS	UNITS	TEST METHOD
1	Kinematic viscosity at 100° C	14.1	mm ² /s	ASTM D 445-21e1
2	Pour point	-30	° C	ASTM D 97-17b
3	Flash Point COC	225	° C	ASTM D 92-18
4	Density, at 15,0° C	0.8958	g/cm ³	ASTM D 4052-22
5	Appearance -Appearance	C & B		visual visual
6	Kinematic viscosity at 40° C	141.42	mm ² /s	ASTM D 445-21e1
7	Viscosity Index	96		ASTM D 2270-10(2016)
8	Brookfield Viscosity at -26° C	68450	mPa*s	ASTM D 2983-22
9	Water	<0,03	% (m/m)	ASTM D 95-13(2018)
10	Corrosion action Cu at 120° C, 3 h	1	stop.kor.	ASTM D 130-19
11	Lubricating properties on 4-ball appar. -Welding load (Pz) -load Wear Index	392 57	daN daN	DIN 51350
12	Foaming -tendency at 24 deg C -tendency at 93 deg C -tendency at 24°C ex 93,5°C	0 10 0	ml ml ml	ASTM D 892-18
13	Stability -at 24° C -at 93,5° C -at 24° C ex 93,5° C	0 0 0	ml ml ml	ASTM D 892-18

Certificate of Quality may be duplicated only as a whole.

Laboratory test ECOL Sp. z o.o. Draw certificate date: 24-10-2022

Manufacturer: LOTOS OIL SP. Z O.O.

Product does meet requirements of the contract: WT 1/02 wyd.6

Confirm certificate - name: ECOL - Kubacki Jakub

Publish certificate - name: Stachura Tomasz DC 03

****CERTIFICATE of QUALITY** Copy**

Control No: 129 / 2023 For:
Tank No.: 15V028
Sample No 129 / 2023
Delivery doc:
Packing, Tank

SUPEROL CC SAE 30

Lp	PROPERTY	RESULTS	UNITS	TEST METHOD
1	Kinematic viscosity at 100° C	11.280	mm ² /s	ASTM D 445-21e1 (A)
2	Flash Point COC	274	° C	ASTM D 92-18
3	Pour point	-30	° C	ASTM D 97-17b
4	Density at 15,0° C	0.8796	g/cm ³	ASTM D 4052-22 (A)
5	Total Base Number (TBN)	9.0	mg KOH/g	ASTM D 2896-21

Certificate of Quality may be duplicated only as a whole.

Laboratory test LOTOS Lab Sp. z o.o. Draw certificate date: 11-01-2023

Symbol (A) in the standard column - The tests were performed by LOTOS Lab Ltd. accredited in this respect by the PCA, No. AB 474

Manufacturer: LOTOS OIL SP. Z O.O.

Product does meet requirements of the contract: WT 3/98 wyd.6

Confirm certificate - name: Frąckowiak Bartłomiej

Publish certificate - name: Sikora Paweł DC 03

CERTIFICATE of QUALITY Copy

Control No: 186 / 2023 For:
Tank No.: 237/E-6
Sample No 186 / 2023
Delivery doc:
Packing, Tank

HYDRAX HLP 32

Lp	PROPERTY	RESULTS	UNITS	TEST METHOD
1	Kinematic viscosity at 40° C	31.84	mm ² /s	ASTM D 445-21e1
2	Pour point	-33	° C	ASTM D 97-17b
3	Flash Point COC	228	° C	ASTM D 92-18
4	Density at 15.0° C	0.8675	g/cm ³	ASTM D 4052-22
5	Water	<0,03	% (m/m)	ASTM D 95-13(2018)
6	Total Acid Number	0.50	mg KOH/g	ASTM D 664-18e2
7	Demulsibility at 54° C			ASTM D 1401-21
	-volume of oil	40	ml	
	-volume water	40	ml	
	-volume of emulsion	0	ml	
	-time of separability	7	min	
8	Corrosion action Cu at 120° C, 3 h	1	stop kor.	ASTM D 130-19
9	Foaming			ASTM D 892-18
	-tendency at 24 deg C	0	ml	
	-tendency at 93 deg C	30	ml	
	-tendency at 24° C ex 93,5° C	0	ml	
10	Stability			ASTM D 892-18
	-at 24° C	0	ml	
	-at 93,5° C	0	ml	
	-at 24° C ex 93,5° C	0	ml	

Certificate of Quality may be duplicated only as a whole.
Laboratory test ECOL Sp. z o.o. Draw certificate date: 16-01-2023
 Manufacturer: LOTOS OIL SP. Z O.O.
 Product does meet requirements of the contract: WT 91/04 wyd.7
 Confirm certificate - name: ECOL - Kubacki Jakub
 Publish certificate - name: **Sikora Paweł DC 03**

****CERTIFICATE of QUALITY** Copy**

Control No: 120 / 2023 For:
 Tank No.: 15V025
 Sample No 120 / 2023
 Delivery doc:
 Packing, Tank

HYDRAULIC OIL L-HV 32

Lp	PROPERTY	RESULTS	UNITS	TEST METHOD
1	Kinematic viscosity at 40° C	32.60	mm ² /s	ASTM D 445-21e1 (A)
2	Pour point	-51	° C	ASTM D 97-17b
3	Flash Point COC	218	° C	ASTM D 92-18
4	Density, at 15,0° C	0.8633	g/cm ³	ASTM D 4052-22
5	Viscosity Index	149		ASTM D 2270-10(2016)
6	Total Acid Number	0.57	mg KOH/g	ASTM D 664-18e2
7	Demulsibility at 54° C			ASTM D 1401-21
	-volume of oil	40	ml	
	-volume water	40	ml	
	-volume of emulsion	0	ml	
	-time of separability	10	min	
8	Corrosion action Cu at 120° C, 3 h	1	stop kor.	ASTM D 130-19 (A)
9	Foaming			ASTM D 892-18
	-tendency at 24 deg C	10	ml	
	-tendency at 93 deg C	20	ml	
	-tendency at 24°C ex 93,5°C	0	ml	
10	Stability			ASTM D 892-18
	-at 24° C	0	ml	
	-at 93,5° C	0	ml	
	-at 24° C ex 93,5° C	0	ml	

Certificate of Quality may be duplicated only as a whole.

Laboratory test LOTOS Lab Sp. z o.o. Draw certificate date: 10-01-2023

Symbol (A) in the standard column - The tests were performed by LOTOS Lab Ltd. accredited in this respect by the PCA, No. AB 474

Manufacturer: LOTOS OIL SP. Z O O

Product does meet requirements of the contract. WT 2/94 wyd 7

Confirm certificate - name: Besler Paweł

Publish certificate - name: Sikora Paweł DC 03

****CERTIFICATE of QUALITY** Copy**

Control No: 118 / 2022 For:
Tank No.: 403/S1
Sample No 118 / 2022
Delivery doc:
Packing, Tank

LITHIUM GREASE LT-43

Lp	PROPERTY	RESULTS	UNITS	TEST METHOD
1	Worked Penetration 25 deg C	234	1/10 mm	ASTM D 217

Certificate of Quality may be duplicated only as a whole.

ECOL Sp. z o.o. Draw certificate date: 12-01-2022

ECOL Sp. z o.o.

Manufacturer: LOTOS OIL SP. Z O.O.

Product does meet requirements of the contract: WT 48/05 wyd.7

Confirm certificate - name: ECOL - Kubacki Jakub

Publish certificate - name: Sikora Paweł DC 03



Shell Corena S4 R 46

- Extra Long Life
- Improved Efficiency
- Severe Applications

Advanced Synthetic Rotary Air Compressor Oil

Shell Corena S4 R is primarily an advanced synthetic air compressor oil designed to deliver the highest performance lubrication of rotary sliding vane and screw air compressors. It uses a unique advanced additive system to provide excellent protection and performance for compressors running with oil maintenance intervals of 10,000 hours and up to 12,000 hours under certain conditions. Shell Corena S4 R is also perfectly suitable to cover applications where a synthetic bearing & circulating oil or R&O oil (ISO VG 32-68) is required.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Long oil life – Maintenance saving**

Shell Corena S4 R is capable of providing oil maintenance intervals of 10,000 hours (where allowed by manufacturers) even when operating at maximum discharge temperatures in excess of 100°C. This may be extended up to 12,000 hours under certain conditions.

The advanced formulation of Shell Corena S4 R helps deliver exceptional oil life through:

- Exceptional resistance to thermal and chemical breakdown.
- Resist formation of deposits on rotating components in screw compressors and in sliding vane slots for continuous efficient operation.
- Exceptionally low levels of deposit formation to help maintain excellent internal surface cleanliness particularly in oil/air separator and coalescer systems.

The exact oil maintenance interval will depend on intake air quality, duty cycle and ambient conditions. For hot and humid type climates as found in the Asian and Pacific regions, the lower oil drain period of 10,000hrs is recommended (also consult OEM recommendations).

- **Outstanding wear protection**

Shell Corena S4 R helps provide exceptional protection of internal metal surfaces from corrosion and wear.

It contains an advanced ashless anti-wear system to help prolong the life of critical parts such as bearings and gears.

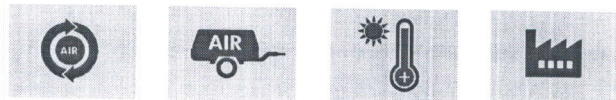
- **Maintaining system efficiency**

Shell Corena S4 R is designed to provide rapid air release without excessive foaming to give trouble-free operation even under cycling conditions helping to ensure reliable start-up and continuous compressed air availability.

Shell Corena S4 R also has low volatility which can result in lower evaporation and oil carryover in the compressor, providing reduced oil top-up requirements in combination with increased air quality.

In addition, Shell Corena S4 R has excellent water separation properties to help ensure continuous efficient operation of the compressor even in the presence of water.

Main Applications



- **Rotary sliding vane and screw air compressors**

Shell Corena S4 R is suitable for use in oil-flooded/ oil injected single or two-stage rotary vane or screw air compressors.

- **Severe service conditions**

May be used where exceptionally high ambient temperatures or humidity are found.

- **Bearing & Circulating oil**

Perfectly suitable to cover applications where a synthetic bearing & circulating oil or R&O oil (ISO VG 32-68) is required, and will provide benefits due to increased resistance to deposits formation, improved low temperature fluidity and lowering of equipment operating temperatures.

Specifications, Approvals & Recommendations

- ISO 6743-3:2003(E) L-DAJ

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

Compatibility & Miscibility

• Miscibility

Shell Corena S4 R is fully miscible with mineral oils, although dilution with mineral lubricants will markedly reduce its performance. Care must be taken to avoid mixing Shell Corena S4 R with certain other types of synthetic fluids. Contact your Shell representative for further information.

• Seal Compatibility

Shell Corena S4 R oils are compatible with seal materials specified for use with mineral oils.

Typical Physical Characteristics

Properties			Method	Shell Corena S4 R 46
ISO Viscosity Grade			ISO 3448	46
Kinematic Viscosity	@40°C	mm ² /s	ASTM D445	46
Kinematic Viscosity	@100°C	mm ² /s	ASTM D445	7.5
Viscosity Index			ISO 2909	135
Density	@15°C	kg/m ³	ASTM D1298	843
Flash Point (COC)		°C	ASTM D92	230
Air Release		minutes	ASTM D3427	2
FZG Test		LS Fail	CEC-L-07-A-95	12
Pour Point		°C	ASTM D97	-48
Water Separability	@54°C	minutes	ASTM D1401	10

These characteristics are typical of current production.

Health, Safety & Environment

• Health and Safety

Shell Corena S4 R is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from <https://www.epc.shell.com>

• Protect the Environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

Additional Information

• Advice

Advice on applications not covered here may be obtained from your Shell representative.



Fisa tehnica

Denumirea anterioara: Shell Albida EMS 2

Shell Gadus S5 V100 2

- Durata lunga de viata
- Eficienta imbunatatita
- Complex de litiu

Vaselina multifunctionala de inalta performanta

Shell Gadus S5 V100 este o vaselina pe baza de complex de litiu, obtinuta din uleiuri de baza sintetice si aditivi antioxidanti, EP, antiuzura si antirugina. Produsul contine un modificador special de frecare care este potrivit pentru rulmenti de mare viteza, rulmenti cu role conice si cilindrice, tip NJ, NUP, plus aplicatiile cu unghi de inel.

DESIGNED TO MEET CHALLENGES

Aplicatii principale



Shell Gadus S5 V100 este conceputa pentru lubrifierea rulmentilor cu role care opereaza la viteze moderate, precum si lagare cu un comportament foarte bun la temperaturi scazute. Vaselina are temperatura de pornire foarte scazuta si cuplurile de functionare la temperaturi de pana la -50°C , prin urmare este potrivita pentru ungerea pe tot parcursul anului, de exemplu ventilatoare in aer liber si motoare electrice. Vaselina are o stabilitate mecanica si termica foarte buna si poate fi utilizata in motoare electrice, ventilatoare si pompe la temperaturi de pana la 150°C , in cazul in care exista cereri pentru intervale prelungite de re-ungere.

Specificatii, Aprobări și Recomandări

Pentru lista completa de aprobări echipamente si recomandari, va rugam sa consultati local Shell Tehnic Helpdesk.

Caracteristici fizice (valori tipice)

Proprietati	Metoda	Shell Gadus S5 V100 2
Consistenta Nlgi		2
Penetratie, lucrata la 60 cicluri (0.1 mm)	IP 50 / Astm D217	265-295
Punct de picurare	$^{\circ}\text{C}$ IP 396	260
Viscozitatea uleiului de baza	@ 40°C cSt IP 71 / Astm D445	100
Viscozitatea uleiului de baza	@ 100°C cSt IP 71 / Astm D445	14
Protectie antirugina: SKF Emcor, Apa distilata		trece
Protectie antirugina: SKF Emcor WWO, Apa distilata		trece
Capacitatea de lubrifiere, SKF R2F A		trece
Capacitatea de lubrifiere, SKF R2F B	@ 150°C	trece
Stabilitate mecanica, rulare (50 ore)	@ 80°C	+50
Interval de temperatura (temporar)	$^{\circ}\text{C}$	-50/+150 (200)

Aceste caracteristici sunt tipice pentru productia curenta. In timp ce productia viitoare se va conforma specificatiilor Shell, pot apare variatii ale acestor valori.



СЕРТИФИКАТ

№ JBS - 249/1/2021

Настоящий сертификат удостоверяет, что:

LOTOS Oil Sp. z o.o.
ul. Elbląska 135, 80-718 Gdańsk

и

ul. Łukasiewicza 2, 43-502 Czechowice-Dziedzice

соответствует требованиям

PN-EN ISO 9001:2015-10, PN-ISO 45001:2018-06
и PN-EN ISO 14001:2015-09

в следующем:

**разработка и производство моторных,
промышленных масел и пластических смазок,
а также оборот базовыми, моторными,
промышленными маслами и пластическими смазками**

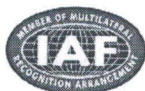
что подтверждено аудитом, проведенным Польским центром по испытаниям и сертификации.

Сертификат действителен при условии соблюдения организацией
вышеуказанных требований
с 05.07.2021 по 04.07.2024

Выдано на основании договора № 1688/JBSA/1/2021
Дата решения о сертификации: 05.07.2021
Сертификат имеет квалифицированную электронную подпись.
Варшава, 05.07.2021



AC 019



Anna Wyroba

Elektronicznie
podpisany przez Anna
Małgorzata Wyroba
Data: 2021.07.20
13:26:10 +02'00'

Member of the Board

AVIZ SANITAR
PENTRU PRODUSELE ALIMENTARE ȘI NEALIMENTARE Nr. P-17027/2023

Санитарное заключение для пищевых и непищевых продуктов
din/от 14 aprilie 2023

Prin prezentul aviz sanitar se confirmă că producerea, importul, utilizarea și desfacerea produselor / echipamentelor
Настоящим санитарным заключением подтверждается что производство, ввоз, использование и реализация продукции / оборудования
Soluție de spălat parbriz "IARNA" -20 C, -30 C; Soluție de spălat parbriz "VARA", lichid pentru aprinderea focului

sunt conforme Regulamentului (lor) sanitar (e) / соответствуют санитарному (ым) регламенту (ам) (se va indica denumirea completă a
Regulamentului (lor) sanitar (e) / указать полное наименование санитарного (ых) регламента (ов))
SF 41279445-001:2020, IT MD 41279445-001:2020, SM GOST R 51696:2003 Produse chimice de uz casnic

Organizația-producătoare/importatoare, țara de origine / организация произв./импортер, страна происхождения

"AMID-AUTO" SRL, Republica Moldova

Destinatarul avizului sanitar / получатель санитарного заключения

AMID-AUTO S.R.L., Republica Moldova, mun. Chișinău, sec. Botanica, str. Independenței, 42, ap./of. 20

Temei pentru recunoașterea conformității produselor Regulamentului (lor) sanitar (e) menționat (e) a servit /
Основанием для признания продукции указанному (ым) санитарному (ым) регламенту (ам) послужило

Demers, autorizație sanitară de funcționare, standard de firmă, instrucțiune tehnologică, rețeta, raport de încercări nr.69 din 17.05.2022, rapoarte a încercărilor de laborator nr.51007043-51007046 din 06.04.2023, din 11.04.2023
(a enumera documentele de însoțire, buletinele de analiză / перечислить сопроводительные док., протоколы исслед.)

Caracteristica sanitară a produselor / санитарная характеристика продукции:

Parametrii (factorii) / показатели (факторы)

Normativul sanitar / санитарный норматив

conform rapoartelor încercărilor de laborator nr.51007043-51007046 din 06.04.2023, din 11.04.2023

Domeniu de utilizare / Область применения:
întreținere auto

Condițiile necesare de utilizare, depozitare, transportare, măsurile de securitate / Необходимые условия использования, хранения,
транспортировки, меры безопасности:
producerea, plasarea pe piață în condițiile respectării legislației în vigoare în Republica Moldova

AVIZUL SANITAR este valabil pînă la / Санитарное заключение действительно до: 30.04.2026

DIRECTORUL AGENȚIEI NAȚIONALE PENTRU SĂNĂTATE PUBLICĂ

Nicolae Jelamschi S.R.L.



Digitally signed by Jelamschi Nicolae
Date: 2023.04.14 11:46:18 EEST
Reason: MoldSign Signature
Location: Moldova



Transmission fluid

LOTOS TITANIS GL-5 SAE 80W90

Mineral transmission fluid is designed for use in hypoid transmissions of passenger cars and other mechanical vehicles working under extremely demanding conditions, i.e. at high speeds and irregular loads, high speeds and low torque, where oil of API GL-5 and SAE 80W/90 is required.

LOTOS TITANIS fluid:

- guarantees excellent transmission cleanliness,
- ensures easy start-ups at low temperatures,
- retards deposits and carbon deposits formation,
- reduces transmission components wear.

No	Requirements	Research methods by	Unit	Value
1.	kinematic viscosity at 100°C	ASTM D-445	mm ² /s	13,5-24,0
2.	pour point, not higher than	ASTM D-5950	°C	- 30
3.	flash-point, not lower than	PN-EN ISO 2592	°C	200
4.	Brookfield viscosity at -26°C, not higher than	PN-83/C-04023	mPa*s	150 000
5.	viscosity index, not lower than	ASTM D-2270		95

The above given data are the typical values for a production batch, they are not included in technical specification, and they are subject to change due to continual product research and development.

Specifications, classifications:

SAE: 80W/90,

API: GL-5

Approved by:

ZF TE –ML 16B, 17B, 19B, 21A (ZF Registration number: ZF000923).

Storage:

The products should be stored under a roof. If they are stored in the open air where they can be exposed to atmospheric conditions – rains, they should be placed in a horizontal position in order to avoid inrush of water to a container and to prevent label damaging; they should be covered with tarpaulin.

The products should not be stored at the temperature above 60°C and in the places where solar radiation is very strong or – temperatures very low, below 0°C. The expiry date is the 3 years if the storage conditions are satisfied.

Health, Industrial Safety and the Environment:

Information concerning safety is included in the product Safety Sheet. It contains detailed information on possible threats, warnings, first aid as well as the impact on the environment and ways of utilization of the used products.

Lotos Oil SA and the cooperating companies do not take responsibility for misuse of the product or – the use with the violation of the precautions given. Before using the product for other than recommended purposes, seek advice in the local Lotos Oil Sp. z o.o. office.