PRODUCT DATA SHEET

HO HYDRAULIC OIL AWS

INDUSTRIAL GRADE

Product Description

TOYO-G (HO AWS) Premium Zinc Based Hydraulic Oil are specially formulated from high quality pure base stocks to ensure optimum lubricating performance. It offers outstanding resistance to sludge formation, exhibit excellent anti wear protection and is chemically stable for lubrication under wide temperature range.

TOYO-G HO AWS series are fortified with new improved thermally stable and selected additives specially for lubricating for both low and high pressure hydraulic system. It provides superior anti-wear protection and have extended oxidation performance qualities.

Product Specification & Performance

TOYO-G HO AWS range of oil meet or exceed the requirements for industrial and mobile hydraulic systems which call for :-

Borsch Rexroth RDE-90235
Danieli 0.000.001 Type 10 & 11
DIN 51524, Part 2
Eaton Brochure 03-401-2010
Eaton Lubricant Specification E-FDGN-TB001-E
Eaton Vickers I-286-S / M-2950-S
Fives Cincinnati P-68, P-69, P-70
GM LS-2 Anti-wear Hydraulic Oil
JCMAS HK P041
Parker Denison HF-0, HF-1, HF-2
DIN 51524 HLP
SAE MS1004
Swedish Standard SS 155434:2015
U.S. Steel 126
ZF TE-ML 07H
ZF TE-ML 21M

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	VG 10	VG 22	VG 32	VG 46	VG 68	VG 100
FLASH POINT ºC	ASTM D-92	175	200	220	230	232	248
VISCOSITY INDEX	ASTM D-2270	98	98	99	99	102	103
POUR POINT ºC	ASTM D-97	-29	-26	-24	-24	-23	-21
KINEMATIC VISCOSITY							
40 ºC mm^2/s (cSt)	ASTM D-445	11.0	21.0	33.0	46.0	68.0	99.0
100 ºC mm^2/s (cSt)	ASTM D-445	2.81	4.16	5.45	6.73	8.80	11.5
Zinc, mass%		0.04	0.04	0.04	0.04	0.04	0.04
COLOUR	ASTM D-1500	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5

This information is our best knowledge, true & accurate, subjected to change without prior notice due to continual product research and development. All recommendations or suggestions are without guarantee since the conditions of use are beyond our control. The manufacturers do not accept liability for any loss or damage, however arising, which results directly from the use of such information, nor do we offer any warranty of immunity against patent infringement.

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Other Information

Safety Data Sheet

Safety data sheet can be requested via website www.toyointernational.com or you may also can get them from your local agent / supplier.

SDS Number: Kindly refer to the following

Storage and Handling

This product shall be ideally stored in a cool, dry location in unopened containers. Suggested temperature between 8°C to 28°C (46°F to 82°F) unless otherwise labeled.

Stirring is recommended in order to prevent ingredients from separating.

Shelf Life

With good practicing on storage, the minimum shelf life from the batch number approx. 5 years or 60 months

Condition of the product must in the unopened original container

Available Packing Sizes		**Part Number # TL-HO 10 AWS**	**[SDS # LP13-01]**
Pail	18 liter	8696L-0609	
Drum	209 liter	8696L-0610	
		Part Number # TL-HO 22 AWS	**[SDS # LP13-02]**
Pail	18 liter	8696L-0611	
Drum	209 liter	8696L-0612	
		Part Number # TL-HO 32 AWS	**[SDS # LP13-03]**
Pail	18 liter	8696L-0360	
Drum	209 liter	8696L-0388	
		Part Number # TL-HO 46 AWS	**[SDS # LP13-04]**
Pail	18 liter	8696L-0210	
Drum	209 liter	8696L-0389	
		Part Number # TL-HO 68 AWS	**[SDS # LP13-05]**
Pail	18 liter	8696L-0206	
Drum	209 liter	8696L-0390	
		Part Number # TL-HO 100 AWS	**[SDS # LP13-06]**
Pail	18 liter	8696L-0613	
Drum	209 liter	8696L-0614	

Updated 04.11.2026

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