



Baum's Castorine Company, Inc.

Manufacturing Chemists Since 1879

HEAVY DUTY HYDRAULIC OILS

Specifications

	100-TH	150-TH	300-LTH	300-MTH	300-HTH
ISO Grade	22	32	46	68	100
Viscosity Index, Min.	95	95	95	95	95
Viscosity @ 100° F,SUS	100/110	145/155	215/225	325/385	450/550
Viscosity @ 210° F,SUS	40	43	48	56	61
A.S.T.M. Color	1.0	1.5	2.0	2.0	3
Flash ° F.	380	380	460	430	450
Fire ° F.	430	450	510	480	500
Pour Point, ° F.	-25	-25	-25	-25	-15
A.P.I. Gravity	33	32.0	31.0	29.3	28.4
Carbon Res.,%Base Stock	.05	.09	.09	.15	.18
Zinc, % wt.	.06	.06	.06	.06	.06

Additive Treatment: Oxidation inhibitor – Rust inhibitor – Anti-Foam agent-Special non-gumming Castor Lubricity Additive – Anti-wear additive – Pour Point Depressant

TENA-FILM HEAVY DUTY HYDRAULIC OILS are high gravity oils of 100% paraffin extraction dewaxed in the refining process to prevent gumming. This special oil is compounded with a unique additive system to make a premium anti-wear hydraulic oil for both high and low pressure systems for industrial mobile applications.

PERFORMANCE: CASTORINE TENA-FILM TH HYDRAULIC OILS meet or exceed the requirements for the following industrial and mobile hydraulic systems.

Sperry Vickers I-286-S, M-2950-S
Denison HF-1, HF-2, HF-0
Racine Model S, variable volume vane pump
Cincinnati Milacron P-68, P-69, P-70
DIN 51524, Part 2
Lee-Norse 100-1
Jeffrey No. 87
Ford M-6C 32
U.S. Steel 136, 127
B.F.Goodrich 0152
General Motors LH-0-1, LH-06-1, LH-15-1

BENEFITS:

Proven field performance
Outstanding thermal and oxidation stability
Superior hydrolytic stability
Good Demulsifiability
Excellent rust protection
Low filter blockage tendency

PERFORMANCE DATA

PUMP PERFORMANCE

SPECIFICATION

Denison

Denison T5D Vane	HF – 0	PASS
Denison P-46 Piston	HF – 0	PASS

Vickers

Vickers 35VQ – 25 Pump (3000 psi, 2400 rpm, 200° F.)	M-2950-S	PASS
Vickers V-104C Vane	ASTM D-2882	PASS

Racine, Vane

S SERIES Variable Volume	PASS
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Turbine Oil Rust Test

Procedure A – Distilled Water	ASTM D-665	PASS
Procedure B – Synthetic Sea Water		PASS

Foam Test

Allowable Foam after 10 minutes – none	ASTM D-892	PASS
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Turbine Oil Oxidation

ASTM D-943

Hours to 2.0 NNA		2600+
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Sludge and Metal Corrosion Test

ASTM D-943 (1000 HR)

	<u>HF – 2</u>	<u>HF – 0</u>	
NNA	2.0 Max	2.0 Max.	0.28
Insoluble Sludge, mg	400 Max.	200 Max.	56
Total Copper, mg	200 Max.	50 Max.	47
Total Iron, mg	100 Max	50 Max	0.40

Hydrolytic Stability

HF – 2

HF – 0

Copper Weight Loss, mg/cm ²	.05 Max.	0.2 Max.	.05
Copper Appearance	ASTM D-130		1A
Acidity of Water Layer mg KOH	6.0 Max.	4.0 Max.	BASIC

Cincinnati Milacron Thermal Stability

CM Spec Limit

(169 hr., 275° F., copper -steel catalyst)

Sludge, mg/100 ml	25 Max.	5
Condition of Copper Rod (CM color) 5 Max	3	
Condition of Steel Rod (CM color) 5 Max.	2	

Turbine Oil Demulsibility

ASTM D-1401

(130° F.) ml: oil – water – cuff (minutes)		40 – 40 – 0 (30)
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Denison Filterability

1.2 Micron Filter	<u>HF – 0</u>	
A No Water, S	600 Max.	150
B 2% Water, S	2 x A Max.	165