

CASTROL DUAL RANGE HV HYDRAULIC FLUIDS

Castrol Dual Range HV Hydraulic Fluids are exceptional multi-viscosity hydraulic fluids that provide proven anti-wear protection coupled with very shear stable polymers and anti-foam additives for a balanced package. An extreme load carrying capability is indicated where Castrol Dual Range HV Hydraulic Fluids pass the FZG Load carrying test at Stage 12. This outstanding performance provides the extra measure of protection required in high load applications such as hydrostatic transmissions and high speed/high pressure hydraulic circuits.

Castrol Dual Range HV Hydraulic Fluids' high viscosity indexes and their low pour points ensure extra pump protection and efficiency in cold weather starts and provide needed viscosity protection at higher operating temperatures. The products are dyed purple to facilitate leak detection.

Features	Advantages	Benefits
Very shear stable polymers.	Universal applications under a wide range of ambient conditions.	Less wear. Longer equipment life.
	Excellent viscosity at operating temperatures (particularly under extreme conditions).	Better productivity through maximum hydraulic system efficiency.
Excellent vane and piston pump performance.	Meets major hydraulic pump manufacturers' requirements.	Less failure of hydraulic circuits. Less equipment repair. Long term trouble-free service.
Outstanding hydrolytic stability.	Additional protection against corrosion in the presence of water.	Systems operate more efficiently. Less maintenance costs.
Outstanding oxidation and thermal stability.	Resistant to thermal degradation in the presence of entrained air and catalyzing metals.	Longer pump life. Less wear.
	Prevents the formation of sludge and varnish deposits during periods of extended high temperature operation.	Less down time. Reduced wear.
	A stable viscosity. Resistant to the formation of oxidation acids.	Systems operate more efficiently. Less maintenance costs.
A carefully balanced rust and corrosion package.	Prevents corrosion and reduces catalytic effect of contaminants on systems metals.	Reduced operating costs and longer system life.

BP Lubricants USA Inc.
1500 Valley Road
Wayne, New Jersey 07470
Telephone 1.800.255.4417

Form No 4150 1/20/2009
(over)

TYPICAL ANALYSIS

Part Number	4150	4155	4205	4225	4226
ISO Grade	22	32	46	68	100
Supersedes			(5W-20)	(15W-30)	(GD)
Viscosity @ 40°C, cSt	22.1	32.6	46.5	67.7	99.0
Viscosity @ 100°C, cSt	4.8	6.2	7.9	10.6	13.9
Viscosity @ 100°F, SUS	107.0	153.2	216	314	459.0
Viscosity @ 210°F, SUS	42	46.5	52.1	61.4	73.6
Viscosity Index (Min.)	143	141	141	145	142
Dielectric Strength, ASTM D 877, kV (1)	35	35			
Flash Point, °C (°F.)	176 (350)	210 (410)	232 (450)	240 (465)	251 (484)
Pour Point, °C (°F.)	-57 (-70)	-51 (-60)	-45 (-49)	-45 (-49)	-42 (-43)
Gravity, API	31.6	31.3	31.2	30.1	29.9
Pounds per Gallon	7.224	7.238	7.242	7.291	7.300
Specific Gravity @ 60 °F	0.8676	0.8692	0.8697	0.8756	0.8767

(1) At the point of manufacture.