Shell Tellus S1V

New HVLP Hydraulic oil in portfolio for versatile applications in Construction and other sectors

Tellus S1 V

Tellus S1 V fluids are quality anti-wear hydraulic fluid which provides cost effective & reliable protection & performance in lost industrial & mobile applications
They have very good oxidation resistance & good antiwear performance complying to DIN 51524 Part 3

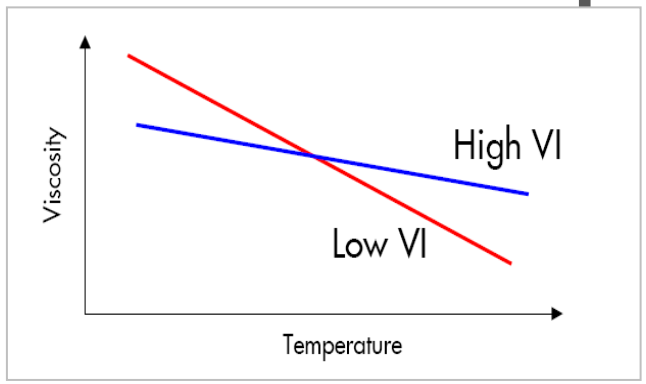
OK, so what is DIN 51524 HVLP part 3 oil ?

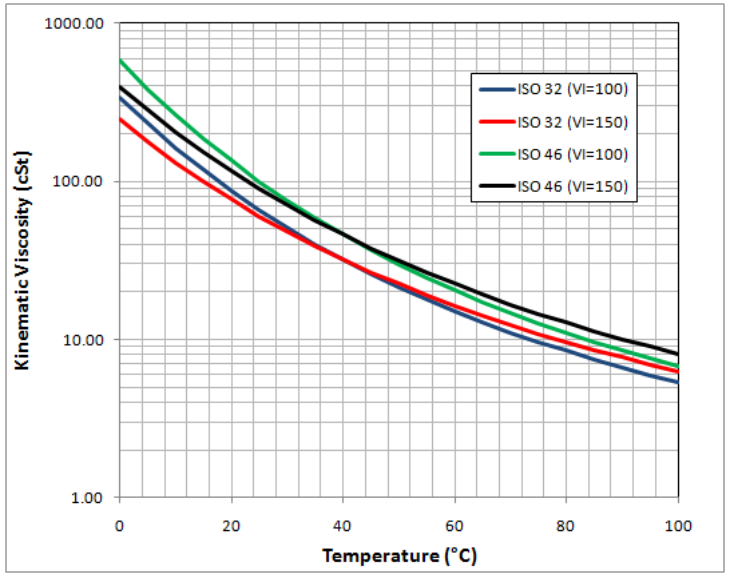
This Standard applies to the hydraulic oils for use predominantly in hydrostatic drive systems in which thermal stresses occur, where corrosion is expected for example as a result of the ingress of water and/or where oil containing anti-wear additives for mixed friction application are required in pump or hydraulic motors, due to their design or operating conditions and where an extended temperature range requires oils having a minimum viscosity – temperature dependence




Classification	Features	Typical filed of application
HVLP fluids according to DIN 51524-3 VI >140	HLP hydraulic fluid(Corrosion, Oxidation and verified wear protection additives) with additional improved viscosity temperature behaviour	HVLP fluids are used in systems operated over a wide temperature range

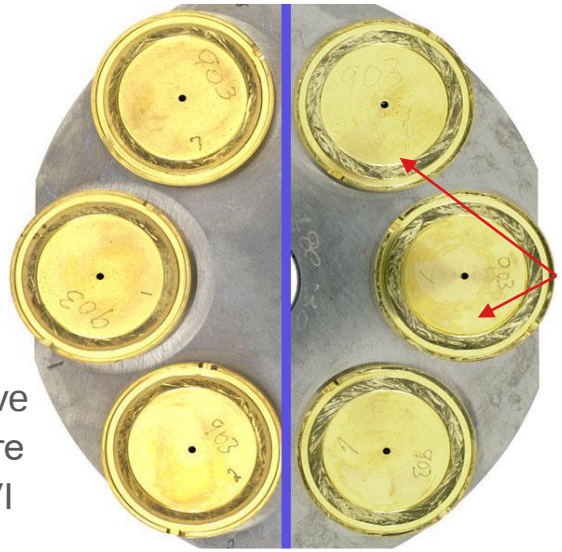
Shell Tellus S1 V – Superior performance HVI hyd.Oil





VISCOSITY INDEX AND EFFICIENCY:

- Achieving a balance between Volumetric and Mechanical Efficiency is possible through utilising a hydraulic oil with a high “Viscosity Index” (VI).
- A high VI Hydraulic oil will have a “flatter viscosity” temperature variation compared to a low VI oil



Excessive Scratching and Scoring due to viscosity drop with low VI oils

It is not a replacement of Shell Tellus S2 VX and thus performance levels are quite different.
It is a cost competitive version to compete with competetion

Shell Tellus S1 V – Superior performance HVI hyd.Oil

Competitions	Shell Tellus S1V 46,68,100	Advantages with Shell
Meeting DIN 51524-3 & ISO 11158	Yes	Meets requirements
Anti-wear Performance	Excellent Anti-wear Performance	Superior component protection and Extended equipment life
Oxidation & Thermal Stability	Resists oxidation in the presence of air, water & copper	Offering good oil life and deposit control in the hydraulic system
HVI	Operational flexibility	Better flow characteristics at low temperature and excellent protection at elevated temperatures

It is not a replacement of Shell Tellus S2 VX and thus performance levels are quite different.
It is a cost competitive version to compete with competition

NEW

Current market offering Vs Shell Tellus S1 V :

Conventional Grade:

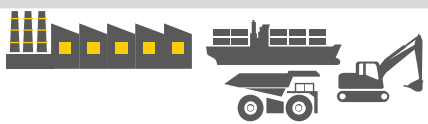
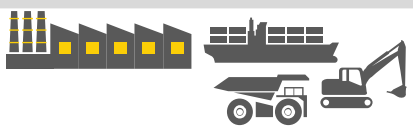
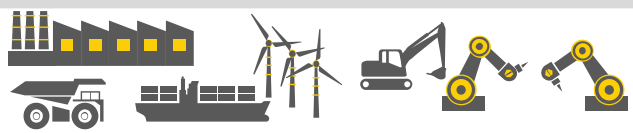
Entry Tier HVLP oil

- Specification – DIN 51524-3,ISO 11158
- VI >140 – Yes
- Viscosity Grades – 32 to 100 cSt.
- OEM approvals – Nil
- Typical ODI in off-highway seg.: Every 1500 - 2000 hrs

Shell Offer:

- Specification - DIN 51524-3, ISO 11158
- VI >140 – Yes
- Viscosity Grades – 46 to 100 cSt.
- OEM approvals – Nil
- Typical ODI in off-highway seg.: Every 1500 - 2000 hrs

Shell Tellus S1 V 46,68,100 (India)

	Shell Tellus S1 M and Shell Tellus S1 V(I)	Shell Tellus S2 MX and Shell Tellus S2 VX	Shell Tellus S3 Z Synthetic blend	Shell Tellus S4 VE GTL synthetic
Energy efficiency	Not applicable	Not applicable	Not applicable	★★★★ Up to 5% energy efficiency & 6% productivity
Extended oil life	★ Up to 1,500 hours TOST life	★★★ Up to 5,000 hours TOST life	★★★★ Up to 7,500 hours TOST life	★★★★★ Up to 10,000 hours TOST life; 8,000+ hours oil-drain interval for mobile equipment; 40,000 hours+ for plastic injection moulding machines
System efficiency	★ Good air release	★★★ Quick air release; excellent stick–slip properties	★★★½ Fast air release; excellent stick–slip properties	★★★★★ Faster air release; excellent stick–slip properties; high electrical conductivity; high flash; less noise; high dielectric breakdown voltage
Wear protection	★★ Meets DIN and ISO requirements	★★★★ Bosch Rexroth RDE 90245; Denison T6H20; Eaton Vickers 35VQ25	★★★★ Bosch Rexroth RDE 90245; Denison T6H20; Eaton Vickers 35VQ25	★★★★★ 5X better than Eaton 35VQ25 limit; 4X better than Bosch RDE 90245 limit, 3X better than former Denison limit
Sludge and varnish control TOST 1,000 hour sludge	★ DIN 51524 limit 200 mg	★★★ <100 mg	★★★½ <100 mg	★★★★★ <10 mg
Wide operating temperature window (ISO VG 32)	★ VI >90 , VI >140 for Shell Tellus S1 V	★★★½ VI >95 for Shell Tellus S2 MX; VI >140 for Shell Tellus S2 VX	★★★½ VI >115; pour point -36°C	★★★★ VI >160; pour point –60°C
Suggested sectors				

The performance levels are relative to the other Shell products listed and are for illustrative purposes only. For detailed information and advice please follow your OEM maintenance recommendations and contact your local Shell representative for information about the best product for your equipment.

Fit-for-purpose High VI Hydraulic oil for ??

New Member in Shell India Tellus Family

1. Hydraulic cranes
2. Cold reduction equipment
3. Alloying furnaces
4. cold-rolling equipment
5. Annealing furnaces
6. Bearing blocks of induced draft (ID) fans, couplings (fluid and scoop)
7. Hydraulic jacks
8. Divertor system
9. Emergency caliper brakes
10. Rewinder
11. Rope reel
12. Size press,
13. paper roll lifters
14. Steering gear
15. Winches
16. Vessel stern tubes (propulsion)
17. Sleeper laying machines
18. Hydraulic track lifting
19. Hydraulic grip pullers
20. Hydraulic pin pullers, hydraulic
21. Brake circuits, hydraulic tilting circuits
22. Heavy-duty hydraulic extractors
23. Portable hydraulic trolley
24. Hydraulic homogenizer
25. Hydraulic skids
26. coal mills
27. Die casting
28. Metal rolling
29. Continuous casting
30. Forklift
31. Scissor lifts
32. Stacker
33. Automated precisiongrinding
34. clinkering, fluid coupling
35. Bag lifts
36. Fabric calendars
37. Mixers
38. Tire curing press
39. Derricks
40. Drill stems, tongs, clamping,
41. Hydraulic press
42. Hot-rolling equipment, pickling line,
43. Hydraulic shears
44. Pressure leak filters, among others
45. & Many more application which require versatile hyd oil.

Construction & Mining – Value Chain

Quarry and Crushing

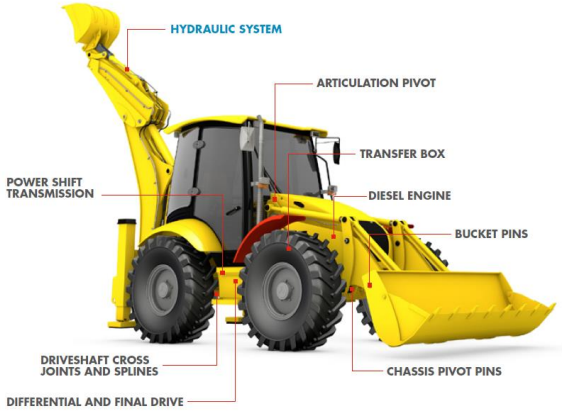
Transport of material

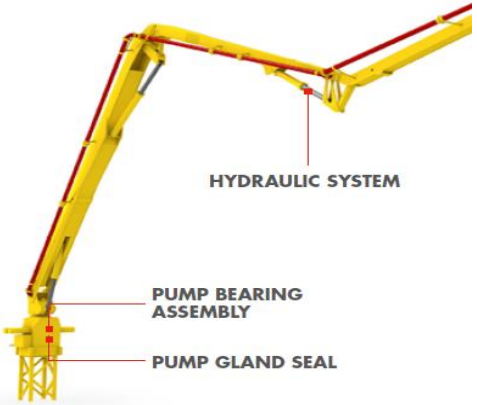
Road construction

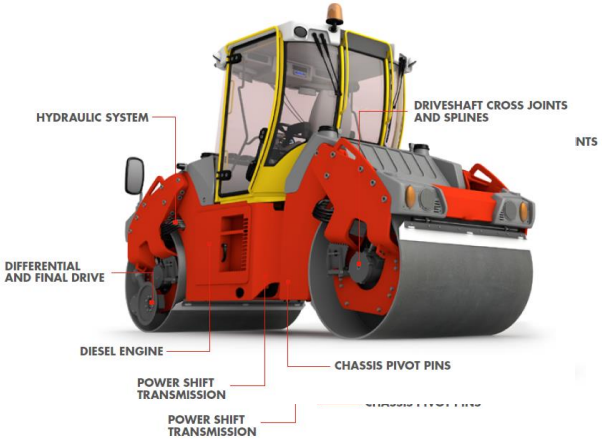
RMC Plants & Transport

Building construction

Common Construction Equipment







Hydraulics
Shell Tellus S1 V

Engine
Shell HD4 Plus 15W-40

Pivot Pins/Bushes/Bearings
Shell Industrial Grease EP2
Shell Multipurpose grease 3

FAQs

- **Is Tellus S1 M & S1 V compatible**
  - Both are fully compatible
- **Is Tellus S1 V compatible with other competition mineral Hydraulic oil ?**
  - Tellus S1 V fluids are compatible with most other mineral oil based hydraulic fluids and doesn't require flushing
- **Can Tellus S1V suggested for long drain interval in Off-highway equipment**
  - Tellus S1 V is limited to ODI of 2000 Hr for off Highway equipment but can be extended after LA and consulting with OEM .
- **Can Tellus S1 V suggested for ACGM .?**
  - Yes .can be used in a wide variety of industrial, mobile applications .High viscosity index and good shear stability maintain excellent viscosity characteristics for long periods of time.

FAQs

- Tellus S1 V can be recommended for which applications
  - can be used in a wide variety of industrial, mobile and marine applications
  - Systems where low start-up and high operating temperatures are typical
  - Hydraulic systems requiring anti-wear oils
  - Systems containing gears and bearings where mild anti-wear characteristics are desirable