

KPI Group	KPI	KPI Value Formula*	Contributing PIs
Environmental	KPI028: Releases of substances	$PI053 + PI055$	PI053: Number of releases of substances to the environment PI055: Number of oil spills
	KPI001: Ballast water management violations	PI015	PI015: Number of ballast water management violations
	KPI007: Contained spills	PI024	PI024: Number of contained spills of liquid
	KPI011: Environmental deficiencies	$\frac{PI027}{PI052}$	PI027: Number of environmental related deficiencies PI052: Number of recorded external inspections
Health and Safety	KPI013: Fire and Explosions	$PI028 + PI032$	PI032: Number of fire incidents PI028: Number of explosion incidents
	KPI017: Lost Time Injury Frequency	$\frac{PI030 + PI037 + PI046 + PI047}{PI063 * 10^{-6}}$	PI030: Number of fatalities due to work injuries PI037: Number of lost workday cases PI047: Number of permanent total disabilities (PTD) PI046: Number of permanent partial disabilities PI063: Total exposure hours
	KPI015: Health and Safety deficiencies	$\frac{PI034}{PI052}$	PI034: Number of health and safety related deficiencies PI052: Number of recorded external inspections
	KPI018: Lost Time Sickness Frequency	$\frac{PI019 + PI031}{PI063 * 10^{-6}}$	PI019: Number of cases where a crew member is sick for more than 24 hours PI031: Number of fatalities due to sickness PI063: Total exposure hours
	KPI025: Passenger Injury Ratio	$\frac{PI045}{PI061 * 10^{-6}}$	PI045: Number of passengers injured PI061: Passenger exposure hours
	KPI034: Total Recordable Case Frequency	$\frac{PI030 + PI037 + PI046 + PI047 + PI066}{PI063 * 10^{-6}}$	PI030: Number of fatalities due to work injuries PI037: Number of lost workday cases PI047: Number of permanent total disabilities (PTD) PI046: Number of permanent partial disabilities PI066: Medical Treatment Cases PI063: Total exposure hours
	KPI035: Total Recordable Case Frequency including First Aid Cases	$\frac{PI030 + PI037 + PI046 + PI047 + PI066 + PI067}{PI063 * 10^{-6}}$	PI030: Number of fatalities due to work injuries PI037: Number of lost workday cases PI047: Number of permanent total disabilities (PTD) PI046: Number of permanent partial disabilities PI066: Medical Treatment Cases PI067: First Aid Cases PI063: Total exposure hours
HR Management	KPI008: Crew disciplinary frequency	$\frac{PI013 + PI020 + PI021 + PI026 + PI036}{PI063} * 24 * 90$	PI013: Number of absconded crew PI020: Number of charges of criminal offences PI021: Number of cases where drugs or alcohol is abused PI026: Number of dismissals PI036: Number of logged warnings PI063: Total exposure hours
	KPI009: Crew planning	$PI025 + PI060$	PI025: Number of seafarers not relieved on time PI060: Number of violation of rest hours
	KPI016: HR deficiencies	$\frac{PI035}{PI052}$	PI035: Number of HR related deficiencies PI052: Number of recorded external inspections
	KPI003: Cadets per ship	$\frac{PI017}{PI057}$	PI017: Number of cadets under training with the DOC holder PI057: Number of ships operated under the DOC holder
	KPI022: Officer retention rate	$100\% - \frac{(PI041 - (PI056 + PI016))}{PI006} * 100\%$	PI041: Number of officer terminations from whatever cause PI056: Number of unavoidable officer terminations PI016: Number of beneficial officer terminations PI006: Number of officers employed
	KPI023: Officers experience rate	$\frac{PI040}{4 * PI043} * 100$	PI040: Number of officer experience points PI043: Number of officers onboard
	KPI031: Training days per officer	$\frac{PI042}{PI039}$	PI042: Number of officer trainee man days PI039: Number of officer days onboard all ships with the DOC holder
Navigational Safety	KPI019: Navigational deficiencies	$\frac{PI038}{PI052}$	PI038: Number of navigational related deficiencies PI052: Number of recorded external inspections
	KPI020: Navigational incidents	$PI014 + PI022 + PI033$	PI022: Number of collisions PI014: Number of allisions PI033: Number of groundings
Operational	KPI002: Budget performance	$\frac{ PI012 - (PI011 - PI010) }{PI012}$	PI012: Last year's running cost budget PI011: Last year's actual running costs and accruals PI010: Last year's AAE (Additional Authorized Expenses)
	KPI010: Drydocking planning performance	$\left( \frac{ PI002 - PI005 }{PI005} + \frac{ PI001 - PI004 }{PI004} \right) * 100\%$	PI005: Agreed drydocking duration PI002: Actual drydocking duration PI004: Agreed drydocking budget PI001: Actual drydocking costs

	KPI004: Cargo related incidents	PI018	PI018: Number of cargo related incidents
	KPI024: Operational deficiencies	$\frac{PI044}{PI052}$	PI044: Number of operational related deficiencies PI052: Number of recorded external inspections
	KPI032: Ship availability	$1 - \frac{ PI062 - PI003 }{PI062} * 100$	PI003: Actual unavailability PI062: Planned unavailability
	KPI033: Vetting deficiencies	$\frac{PI058}{PI059}$	PI058: Number of observations during commercial inspections PI059: Number of commercial inspections
<b>Security</b>	KPI029: Security deficiencies	$\frac{PI054}{PI052}$	PI054: Number of security related deficiencies PI052: Number of recorded external inspections
<b>Technical</b>	KPI006: Condition of class	PI023	PI023: Number of conditions of class
	KPI012: Failure of critical equipment and systems	PI029	PI029: Number of failures of critical equipment and systems
	KPI036: Overdue tasks in PMS	PI065	PI065: Overdue tasks in PMS
<b>Port State Control</b>	KPI027: Port state control detention	PI050, if PI049 > 0	PI050: Number of PSC detentions PI049: Number of PSC inspections
	KPI026: Port state control deficiency ratio	$\frac{PI048}{PI049}$	PI048: Number of PSC deficiencies PI049: Number of PSC inspections
	KPI014: Port state control performance	$\frac{PI051}{PI049}$	PI051: Number of PSC inspections resulting in zero deficiencies PI049: Number of PSC inspections

### The KPI Ranking formula

The count of all participant below your rank ( $cl$ ). The frequency of ships in your same rank ( $fi$ ). The total number of ships in the ranking segment ( $N$ ).

$$Percentile Rank = \frac{cl + 0.5 fi}{N} * 100$$

### Need more info ?

For further information about the system please refer to the web site

[www.shipping-kpi.org](http://www.shipping-kpi.org)

In case of questions, please use the feedback form on the website or email us.

[support@shipping-kpi.org](mailto:support@shipping-kpi.org)