



Anti-Wear (AW) Hydraulic Oil ISO-32

S81-AW32-16-10375

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SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Anti-Wear (AW) Hydraulic Oil ISO-32**

Other means of identification : S81-AW32-16-10375

Recommended use of the chemical and restrictions on use

: Industrial Lubricant
Recommended restrictions: None Known.

Chemical family

: Petroleum hydrocarbon.

Name, address, and telephone number
of the supplier:

Terrapure Environmental

130 Forester Street
North Vancouver, BC, Canada
V7H 2M9

Supplier's Telephone # : (604) 982-2363; M-F, 7am-5pm

24 Hr. Emergency Tel # : No information available.

Name, address, and telephone number of
the manufacturer:

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Pale yellow liquid. Mild petroleum odour.

This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Label elements

Hazard pictogram(s)

None required under U.S. OSHA Hazcom 2012 and Canadian WHMIS 2015 regulations.

Signal Word

Not applicable.

Hazard statement(s)

None required under OSHA HazCom2012 and 2015 Canadian WHMIS regulations.

Precautionary statement(s)

None required under OSHA HazCom2012 and 2015 Canadian WHMIS regulations.

Other hazards

Inhalation of fumes or mists may cause irritation to the nose, throat and upper respiratory tract. Prolonged contact with skin may cause skin irritation. Vapours may irritate eyes. Ingestion may cause irritation of mouth, throat, and stomach, nausea, vomiting, and diarrhea. Product may present an aspiration hazard, if ingested in large amounts, causing life-threatening lung injury.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

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<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Lubricating oils, refined used	Lubricating oils (used) refined	68476-77-7	80.0 - 100.0
2,6-Di-tert-butylphenol	2,6-Bis(tert-butyl)phenol	128-39-2	0.1 - 1.0
Zinc alkyldithiophosphate	Zinc C1-C14, alkyldithiophosphate	N/Ap	0.1 - 1.0
Triphenyl phosphite	Phosphorous acid, triphenyl ester; TPP	101-02-0	0.1 - 1.0
Toluene	Methylbenzene	108-88-3	0.0 - 0.01
2-Ethylhexyl alcohol	2-ethylhexan-1-ol 2-Ethylhexyl alcohol 2EH	104-76-7	0.0 - 0.01

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : First Aid is normally not required. Do not induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. If irritation or symptoms develop, seek medical attention.
- Inhalation* : First Aid is normally not required. If INHALED excessively remove to fresh air. Get medical attention if irritation develops and persists.
- Skin contact* : Wash with plenty of water and soap. Do not use solvents. Remove and wash contaminated clothing before re-use. If irritation or symptoms develop, seek medical attention.
- Eye contact* : Flush with large amounts of water for 15 minutes. If easy to do, remove contact lens, if worn. If irritation persists, seek prompt medical attention.

Most important symptoms and effects, both acute and delayed

- : Inhalation of fumes or mists may cause irritation to the nose, throat and upper respiratory tract. Prolonged contact with skin may cause skin irritation. Vapours may irritate eyes. Ingestion may cause irritation of mouth, throat, and stomach, nausea, vomiting, and diarrhea. Product may present an aspiration hazard, if ingested in large amounts, causing life-threatening lung injury.

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Dry chemical, foam, carbon dioxide and water fog. Do not use water jet, as this may spread burning material.

Unsuitable extinguishing media

- : None known.

Special hazards arising from the substance or mixture / Conditions of flammability

- : None known.

Flammability classification (OSHA 29 CFR 1910.106)

- : Not flammable.

Hazardous combustion products

- : Carbon oxides and other irritating fumes and smoke.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters



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- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.

Methods and material for containment and cleaning up

- : Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Small Spills: Ventilate area of release. Remove all sources of ignition. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Large Spills: For large spills on surfaces other than pavement (e.g. soil or sand), spills may be handled by digging up and removing the affected surface and placing it in approved containers. Notify the appropriate authorities as required.

Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802). EPA/CERCLA Reportable quantity (RQ): None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Use in a well-ventilated area. Wear suitable protective equipment during handling. Avoid breathing fumes, mists or vapors. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and open flames. Avoid contact with incompatible materials. Wash thoroughly after handling.

Conditions for safe storage : Store in a cool, dry, well-ventilated area. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

Incompatible materials : Strong oxidizing agents; Nitrates, chlorates, and peroxides

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:				
Chemical Name	ACGIH TLV		OSHA PEL	
	TWA	STEL	PEL	STEL
Lubricating oils, refined used	N/Av	N/Av	N/Av	N/Av
2,6-Di-tert-butylphenol	N/Av	N/Av	N/Av	N/Av
Zinc alkyldithiophosphate	N/Av	N/Av	N/Av	N/Av
Triphenyl phosphite	N/Av	N/Av	N/Av	N/Av
Toluene	20 ppm	N/Av	200 ppm	300 ppm (Ceiling)
2-Ethylhexyl alcohol	N/Av	N/Av	N/Av	N/Av

Exposure controls

Ventilation and engineering measures

- : Use in a well-ventilated area. General mechanical ventilation and local exhaust is recommended for use with this product.

Respiratory protection

- : Not required under normal conditions of handling. Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Advice should be sought from respiratory protection specialists.

Skin protection

- : Not required under normal conditions of handling. For prolonged skin exposure, gloves impervious to the material are recommended. Advice should be sought from glove suppliers.

Eye / face protection

- : Safety glasses with side shields should be used with this product. Chemical goggles are recommended when there is a potential for splashing. Do not wear contact lenses.

Other protective equipment

- : An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

General hygiene considerations

- : Avoid breathing fumes, mists or vapors. Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Pale yellow liquid.
- Odour** : Mild petroleum odour.
- Odour threshold** : N/Av
- pH** : N/Av
- Melting Point/Freezing point** : -39°C (pour point)
- Initial boiling point and boiling range** : > 300°C
- Flash point** : > 200°C
- Flashpoint (Method)** : ASTM D92 (C.O.C.)
- Evaporation rate (BuAe = 1)** : N/Av
- Flammability (solid, gas)** : Not flammable.
- Lower flammable limit (% by vol.)** : N/Av

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Upper flammable limit (% by vol.)

: N/Av

Oxidizing properties

: Not known.

Explosive properties

: N/Av

Vapour pressure

: N/Av

Vapour density

: > 1

Relative density / Specific gravity

: 0.8553

Solubility in water

: Insoluble.

Other solubility(ies)

: N/Av

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: N/Av

Auto-ignition temperature

: N/Av

Decomposition temperature

: N/Av

Viscosity

: 32 cSt @ 40°C

Volatiles (% by weight)

: N/Av

Volatile organic Compounds (VOC's)

: N/Av

Absolute pressure of container

: N/Av

Flame projection length

: N/Av

Other physical/chemical comments

: None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity

: Not expected to be reactive.

Chemical stability

: Stable under normal conditions.

Possibility of hazardous reactions

: Hazardous polymerization does not occur.

Conditions to avoid

: Avoid heat and open flame. Keep away from direct sunlight. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

Incompatible materials

: Strong oxidizing agents; (e.g. chlorates; nitrates; peroxides).

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation

: YES

Routes of entry skin & eye

: YES

Routes of entry Ingestion

: YES

Routes of exposure skin absorption

: YES

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

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- Sign and symptoms ingestion* : Inhalation of fumes or mists may cause irritation to the nose, throat and upper respiratory tract.
- Sign and symptoms skin* : May cause irritation of mouth, throat, and stomach. May cause nausea, stomach pain and vomiting. Product may present an aspiration hazard, if ingested in large amounts, causing life-threatening lung injury.
- Sign and symptoms eyes* : May cause skin irritation. Prolonged contact, such as when trapped against the skin under clothing or jewelry, may be more irritating.
- Sign and symptoms eyes* : Vapours may irritate eyes. May cause mild, transient discomfort to eyes.
- Potential Chronic Health Effects** : Prolonged skin contact may cause dermatitis (rash), characterized by red, dry, itching skin.
- Mutagenicity** : Not expected to be mutagenic in humans.
- Carcinogenicity** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
- Reproductive effects & Teratogenicity** : Not expected to have other reproductive effects.
- Sensitization to material** : Not expected to be a skin or respiratory sensitizer.
- Specific target organ effects** : This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).
- Medical conditions aggravated by overexposure** : Pre-existing skin, eye and respiratory disorders.
- Synergistic materials** : None known or reported by the manufacturer.
- Toxicological data** :

<u>Chemical name</u>	<u>LC₅₀(4hr)</u>	<u>LD₅₀</u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Lubricating oils, refined used	N/Av	N/Av	N/Av
2,6-Di-tert-butylphenol	N/Av	>5000 mg/kg	N/Av
Zinc alkyldithiophosphate	N/Av	N/Av	N/Av
Triphenyl phosphite	>6.7 mg/L 1 h	444 mg/kg	1180 mg/kg
Toluene	7585 ppm (28.1 mg/L)	5580 mg/kg	12 125 mg/kg
2-Ethylhexyl alcohol	≥ 1.2, < 5.3 mg/L (aerosol)	2052 mg/kg	> 3000 mg/kg (No mortality)

Other important toxicological hazards

- : See Section 2 for additional information.

SECTION 12. ECOLOGICAL INFORMATION

- Ecotoxicity** : The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

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Ecotoxicity data:

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Lubricating oils, refined used	68476-77-7	N/Av	N/Av	None.
2,6-Di-tert-butylphenol	128-39-2	N/Av	N/Av	N/Av
Zinc alkyldithiophosphate	N/Ap	N/Av	N/Av	N/Av
Triphenyl phosphite	101-02-0	N/Av	N/Av	None.
Toluene	108-88-3	5.4 mg/L (pink salmon)	1.4 - 4 mg/L	None.
2-Ethylhexyl alcohol	104-76-7	17.1 mg/L (Golden orfe)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Lubricating oils, refined used	68476-77-7	N/Av	N/Av	None.
2,6-Di-tert-butylphenol	128-39-2	48 Hr EC50 Daphnia magna: 0.45 mg/L	N/Av	N/Av
Zinc alkyldithiophosphate	N/Ap	N/Av	N/Av	N/Av
Triphenyl phosphite	101-02-0	N/Av	N/Av	None.
Toluene	108-88-3	3.78 mg/L (Daphnia magna)	0.53 - 1 mg/L	None.
2-Ethylhexyl alcohol	104-76-7	39 mg/L (Daphnia magna)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Lubricating oils, refined used	68476-77-7	N/Av	N/Av	None.
2,6-Di-tert-butylphenol	128-39-2	N/Av	N/Av	N/Av
Zinc alkyldithiophosphate	N/Ap	N/Av	N/Av	N/Av
Triphenyl phosphite	101-02-0	N/Av	N/Av	None.
Toluene	108-88-3	N/Av	10 mg/L/72hr (Green algae)	None.
2-Ethylhexyl alcohol	104-76-7	11.5 mg/L/72hr (Green algae)	N/Av	None.

Persistence and degradability

: Not expected to be rapidly biodegradable.

Bioaccumulation potential

: No data is available on the product itself.



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<u>Components</u>	<u>Partition coefficient n-octanol/water (log K_{ow})</u>	<u>Bioconcentration factor (BCF)</u>
Zinc alkyldithiophosphate (CAS N/Ap)	N/Av	N/Av
Lubricating oils, refined used (CAS 68476-77-7)	N/Av	N/Av
Triphenyl phosphite (CAS 101-02-0)	4.98	N/Av
Toluene (CAS 108-88-3)	2.65	N/Av
2-Ethylhexyl alcohol (CAS 104-76-7)	2.9	30

Mobility in soil : No data is available on the product itself.

Other Adverse Environmental effects

: No data is available on the product itself.

SECTION 13. DISPOSAL CONSIDERATIONS

- Handling for Disposal** : Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.
- Methods of Disposal** : Dispose of in accordance with federal, provincial and local hazardous waste laws.
- RCRA** : Under the RCRA, it is the responsibility of the waste generator to determine the proper waste identification and disposal method.

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SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	None.	Not regulated.	not regulated	none	
TDG Additional information	None.				
49CFR/DOT	None.	Not regulated.	not regulated	none	
49CFR/DOT Additional information	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	
IMDG Additional information	None.				

Special precautions for user : Keep away from heat, sparks and open flame - No smoking.

Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: No information available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:



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<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Lubricating oils, refined used	68476-77-7	Yes	N/Ap	N/Av	No	N/Ap
2,6-Di-tert-butylphenol	128-39-2	Yes	N/Ap	N/Av	No	N/Ap
Zinc alkyldithiophosphate	N/Ap	NL	None.	None.	No	N/Ap
Triphenyl phosphite	101-02-0	Yes	N/Ap	N/Av	No	N/Ap
Toluene	108-88-3	Yes	1000 lb/ 454 kg	None.	No	N/Ap
2-Ethylhexyl alcohol	104-76-7	Yes	None.	None.	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: None.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Lubricating oils, refined used	68476-77-7	No	N/Ap	No	No	No	No	No	No
2,6-Di-tert-butylphenol	128-39-2	No	N/Ap	No	No	No	No	No	No
Zinc alkyldithiophosphate	N/Ap	No	N/Ap	No	No	NS	No	No	NS
Triphenyl phosphite	101-02-0	No	N/Ap	No	No	No	No	No	No
Toluene	108-88-3	Yes	Developmental	No	No	Yes	No	No	Yes
2-Ethylhexyl alcohol	104-76-7	No	N/Ap	No	Yes	No	No	Yes	No

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Lubricating oils, refined used	68476-77-7	270-697-6	Present	N/Av	N/Av	N/Av	Present	N/Av
2,6-Di-tert-butylphenol	128-39-2	204-884-0	Present	Present	(3)-526; (3)-521	KE-03085	Present	HSR005197
Zinc alkyldithiophosphate	N/Ap	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
Triphenyl phosphite	101-02-0	202-908-4	Present	Present	(3)-2501; (3)-250	KE-34742	Present	HSR003401
Toluene	108-88-3	203-625-9	Present	Present	(3)-2	KE-33936	Present	HSR001227
2-Ethylhexyl alcohol	104-76-7	203-234-3	Present	Present	(2)-217	KE-13766	Present	HSR001386



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SECTION 16. OTHER INFORMATION

- Legend**
- : ACGIH: American Conference of Governmental Industrial Hygienists
 - CAS: Chemical Abstract Services
 - CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
 - CFR: Code of Federal Regulations
 - DOT: Department of Transportation
 - EPA: Environmental Protection Agency
 - EST: Eastern Standard Time
 - HMIS: Hazardous Materials Identification System
 - HSDB: Hazardous Substances Data Bank
 - IARC: International Agency for Research on Cancer
 - Inh: Inhalation
 - LC: Lethal Concentration
 - LD: Lethal Dose
 - N/Ap: Not Applicable
 - N/Av: Not Available
 - NIOSH: National Institute of Occupational Safety and Health
 - OSHA: Occupational Safety and Health Administration
 - PEL: Permissible exposure limit
 - RCRA: Resource Conservation and Recovery Act
 - RTECS: Registry of Toxic Effects of Chemical Substances
 - SARA: Superfund Amendments and Reauthorization Act
 - STEL: Short Term Exposure Limit
 - TLV: Threshold Limit Values
 - TWA: Time Weighted Average
 - WHMIS: Workplace Hazardous Materials Identification System
- References**
- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2018.
 - 2. International Agency for Research on Cancer Monographs, searched 2019.
 - 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2019 (Chempendium, HSDB and RTECs).
 - 4. Safety Data Sheets from manufacturer.
 - 5. US EPA Title III List of Lists - June 2019 version.
 - 6. California Proposition 65 List - June 2019 version.
 - 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2019.
- Preparation Date (mm/dd/yyyy)**
- : 08/12/2016
- Reviewed Date SDS (dd/mm/yyyy)**
- : 10/09/2019
- Revision No.**
- : 2
- Revision Information**
- : (M)SDS sections updated 1. IDENTIFICATION 3. COMPOSITION/INFORMATION ON INGREDIENTS 5. FIRE-FIGHTING MEASURES 15. REGULATORY INFORMATION 16. Other information
- Other special considerations for handling**
- : Provide adequate information, instruction and training for operators.



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<u>Prepared for:</u> Terrapure Environmental 130 Forster Street North Vancouver, BC V7H 2M9 Telephone: 604-982-2363 http://www.terrapureenv.com/	The Terrapure logo, consisting of a stylized green and blue circular icon and the word "terrapure" in blue lowercase letters.
<u>Prepared by:</u> ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) http://www.thecompliancecenter.com	The ICC Compliance Center logo, featuring a blue and yellow circular icon with the letters "icc" and the words "ComplianceCenter" in blue.

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