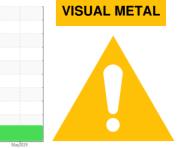


OIL ANALYSIS REPORT

Sample Rating Trend





51 Component Diesel Engine Fluid

PETRO CANADA DURON HP 15W40 (--- GAL)

DIAGNOSIS

A Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Machine Id

📥 Wear

Moderate concentration of visible metal present. All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

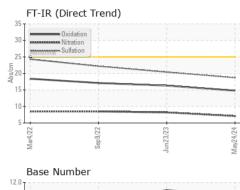
Fluid Condition

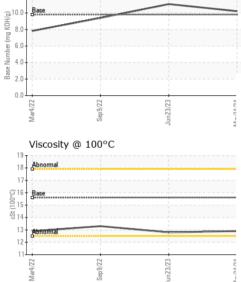
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Date Client Info 24 May 2024 23 Jun 2023 09 Sep 2022 Machine Age hrs Client Info 4668 4265 3815 Dil Age hrs Client Info 403 0 0 Dil Changed Client Info Changed Changed Changed NORMAL NORMAL Sample Status Imit/base current history1 history2 Fuel WC Method >5 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Wethod WC Method >0 24 38 44 Chornium ppm ASTM D5185m >20 <1 <1 <1 Nickel ppm ASTM D5185m >20 0 0 <1 <1 Nickel ppm ASTM D5185m >2 0 0 <1 1 <1 <1 <1 <1 <1 <1 <1 1 <1 <1	Sample Date Cilent Info 24 May 2024 23 Jun 2023 09 Sep 2022 Machine Age hrs Cilent Info 4668 4265 3815 Oil Age hrs Cilent Info 403 0 0 0 Oil Changed Client Info Changed NEG NEG NEG NEG NEG NEG NEG NEG Changed Changed Changed Changed Changed Changed Changed <	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
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Manganese ppm ASTM D5185m <1	Marganese ppm ASTM D5185m <1	ADDITIVES		method	limit/base	current	history1	history2
Magnesium ppm ASTM D5185m 966 966 779 Calcium ppm ASTM D5185m 1203 1279 1117 Phosphorus ppm ASTM D5185m 1045 1065 889 Zinc ppm ASTM D5185m 1316 1335 1172 Sulfur ppm ASTM D5185m 3637 3785 2698 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 4 3 Sodium ppm ASTM D5185m >20 <1 2 2 Potassium ppm ASTM D5185m >20 <1 0 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.2 0.3 0.3 Nitration Abs/cm *ASTM D7624 >20 7.1 8.2 8.5 <	Magnesium ppm ASTM D5185m 966 966 779 Calcium ppm ASTM D5185m 1203 1279 1117 Phosphorus ppm ASTM D5185m 1045 1065 889 Zinc ppm ASTM D5185m 1045 1065 889 Zinc ppm ASTM D5185m 1316 1335 1172 Sulfur ppm ASTM D5185m 3637 3785 2698 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 4 3 Sodium ppm ASTM D5185m >20 <1 2 2 Potassium ppm ASTM D5185m >20 <1 <1 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 7.1 8.2 8.5 Sulfation	ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 2	history1 12	history2 69
Calcium ppm ASTM D5185m 1203 1279 1117 Phosphorus ppm ASTM D5185m 1045 1065 889 Zinc ppm ASTM D5185m 1316 1335 1172 Sulfur ppm ASTM D5185m 3637 3785 2698 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 4 3 Sodium ppm ASTM D5185m >25 3 4 3 Sodium ppm ASTM D5185m >20 <1 2 2 Potassium ppm ASTM D5185m >20 <1 <1 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.2 0.3 0.3 Nitration Abs/cm *ASTM D7624 >20 7.1 8.2 8.5 <	Calcium ppm ASTM D5185m 1203 1279 1117 Phosphorus ppm ASTM D5185m 1045 1065 889 Zinc ppm ASTM D5185m 1316 1335 1172 Sulfur ppm ASTM D5185m 3637 3785 2698 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 4 3 Sodium ppm ASTM D5185m >25 3 4 3 Sodium ppm ASTM D5185m >20 <1 2 2 Potassium ppm ASTM D7844 >3 0.2 0.3 0.3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.2 0.3 0.3 Nitration Abs/cm *ASTM D7624 >20 7.1 8.2 8.5	ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 2 0	history1 12 0	history2 69 0
Phosphorus ppm ASTM D5185m 1045 1065 889 Zinc ppm ASTM D5185m 1316 1335 1172 Sulfur ppm ASTM D5185m 3637 3785 2698 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 4 3 Sodium ppm ASTM D5185m >25 3 4 3 Sodium ppm ASTM D5185m >20 <1	Phosphorus ppm ASTM D5185m 1045 1065 889 Zinc ppm ASTM D5185m 1316 1335 1172 Sulfur ppm ASTM D5185m 3637 3785 2698 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 4 3 Sodium ppm ASTM D5185m >25 3 4 3 Sodium ppm ASTM D5185m >20 <1 2 2 Potassium ppm ASTM D5185m >20 <1 0 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 7.1 8.2 8.5 Sulfation Abs/cm *ASTM D7415 >30 18.7 20.4 22.2 FLUID DEGRADATION method limit/base current history1 his	ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 2 0 60	history1 12 0 62	history2 69 0 67
Zinc ppm ASTM D5185m 1316 1335 1172 Sulfur ppm ASTM D5185m 3637 3785 2698 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 4 3 Sodium ppm ASTM D5185m >25 3 4 3 Sodium ppm ASTM D5185m >25 3 4 3 Potassium ppm ASTM D5185m >20 <1 2 2 NtFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.2 0.3 0.3 Nitration Abs/cm *ASTM D7624 >20 7.1 8.2 8.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.7 20.4 22.2	Zinc ppm ASTM D5185m 1316 1335 1172 Sulfur ppm ASTM D5185m 3637 3785 2698 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 4 3 Sodium ppm ASTM D5185m >20 <1 2 2 Potassium ppm ASTM D5185m >20 <1 <1 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 7.1 8.2 8.5 Sulfation Abs/cm *ASTM D7624 >20 7.1 8.2 8.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.7 20.4 22.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14	ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 2 0 60 <1	history1 12 0 62 <1	history2 69 0 67 <1
SulfurppmASTM D5185m363737852698CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25343SodiumppmASTM D5185m>25343PotassiumppmASTM D5185m>20<122PotassiumppmASTM D5185m>20<1<10INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>30.20.30.3NitrationAbs/cm*ASTM D7624>207.18.28.5SulfationAbs/.1mm*ASTM D7415>3018.720.422.2	SulfurppmASTM D5185m363737852698CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25343SodiumppmASTM D5185m>20<122PotassiumppmASTM D5185m>20<1<10INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>30.20.30.3NitrationAbs/cm*ASTM D7624>207.18.28.5SulfationAbs/lmm*ASTM D7415>3018.720.422.2FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/lmm*ASTM D7414>2514.816.317.1	ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	2 0 60 <1 966	history1 12 0 62 <1 966	history2 69 0 67 <1 779
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m<>25343SodiumppmASTM D5185m<122PotassiumppmASTM D5185m>20<1<10INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>30.20.30.3NitrationAbs/cm*ASTM D7624>207.18.28.5SulfationAbs/.1mm*ASTM D7415>3018.720.422.2	CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25343SodiumppmASTM D5185m<122PotassiumppmASTM D5185m>20<1<10INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>30.20.30.3NitrationAbs/cm*ASTM D7624>207.18.28.5SulfationAbs/lmm*ASTM D7415>3018.720.422.2FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/lmm*ASTM D7414>2514.816.317.1	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185m	limit/base	current 2 0 60 <1 966 1203	history1 12 0 62 <1 966 1279	history2 69 0 67 <1 779 1117
Silicon ppm ASTM D5185m >25 3 4 3 Sodium ppm ASTM D5185m <21	Silicon ppm ASTM D5185m >25 3 4 3 Sodium ppm ASTM D5185m <1	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 2 0 60 <1 966 1203 1045	history1 12 0 62 <1 966 1279 1065	history2 69 0 67 <1 779 1117 889
Sodium ppm ASTM D5185m <1	Sodium ppm ASTM D5185m <1	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current 2 0 60 <1 966 1203 1045 1316	history1 12 0 62 <1 966 1279 1065 1335	history2 69 0 67 <1 779 1117 889 1172
Potassium ppm ASTM D5185m >20 <1	Potassium ppm ASTM D5185m >20 <1	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		Current 2 0 60 <1 966 1203 1045 1316 3637	history1 12 0 62 <1 966 1279 1065 1335 3785	history2 69 0 67 <1 779 1117 889 1172 2698
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.2 0.3 0.3 Nitration Abs/cm *ASTM D7624 >20 7.1 8.2 8.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.7 20.4 22.2	INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.2 0.3 0.3 Nitration Abs/cm *ASTM D7624 >20 7.1 8.2 8.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.7 20.4 22.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.8 16.3 17.1	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 2 0 60 <1 966 1203 1045 1316 3637 current	history1 12 0 62 <1 966 1279 1065 1335 3785 history1	history2 69 0 67 <1 779 1117 889 1172 2698 history2
Soot % % *ASTM D7844 >3 0.2 0.3 0.3 Nitration Abs/cm *ASTM D7624 >20 7.1 8.2 8.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.7 20.4 22.2	Soot % % *ASTM D7844 >3 0.2 0.3 0.3 Nitration Abs/cm *ASTM D7624 >20 7.1 8.2 8.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.7 20.4 22.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.8 16.3 17.1	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 2 0 60 <1 966 1203 1045 1316 3637 current 3	history1 12 0 62 <1 966 1279 1065 1335 3785 history1 4	history2 69 0 67 <1 779 1117 889 1172 2698 history2 3
Nitration Abs/cm *ASTM D7624 >20 7.1 8.2 8.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.7 20.4 22.2	Nitration Abs/cm *ASTM D7624 >20 7.1 8.2 8.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.7 20.4 22.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.8 16.3 17.1	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >25	current 2 0 60 <1 966 1203 1045 1316 3637 current 3 <1	history1 12 0 62 <1 966 1279 1065 1335 3785 history1 4 2	history2 69 0 67 <1 779 1117 889 1172 2698 history2 3 2
Sulfation Abs/.1mm *ASTM D7415 >30 18.7 20.4 22.2	Sulfation Abs/.1mm *ASTM D7415 >30 18.7 20.4 22.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.8 16.3 17.1	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >25 >20	current 2 0 60 <1 966 1203 1045 1316 3637 current 3 <1 <1	history1 12 0 62 <1 966 1279 1065 1335 3785 history1 4 2 <1	history2 69 0 67 <1 779 1117 889 1172 2698 history2 3 2 0
	FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.8 16.3 17.1	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >25 >20 limit/base	2 0 60 <1 966 1203 1045 1316 3637 current 3 <1 <1 <1 <1 current	history1 12 0 62 <1 966 1279 1065 1335 3785 history1 4 2 <1 history1	history2 69 0 67 <1 779 1117 889 1172 2698 history2 3 2 0 history2
	Oxidation Abs/.1mm *ASTM D7414 >25 14.8 16.3 17.1	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >25 >20 limit/base >3	current 2 0 60 <1 966 1203 1045 1316 3637 current 3 <1 <1 current 0.2	history1 12 0 62 <1 966 1279 1065 1335 3785 history1 4 2 <1 history1 0.3	history2 69 0 67 <1 779 1117 889 1172 2698 history2 3 2 0 history2 0 0.3
FLUID DEGRADATION method limit/base current history1 history2		ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >25 >20 limit/base >3 >20	current 2 0 60 <1 966 1203 1045 1316 3637 current 3 <1 <1 0.2 7.1	history1 12 0 62 <1 966 1279 1065 1335 3785 history1 4 2 <1 history1 4 2 <1 history1 0.3 8.2	history2 69 0 67 <1 779 1117 889 1172 2698 history2 3 2 0 history2 0 history2 0.3 8.5
Dxidation Abs/.1mm *ASTM D7414 >25 14.8 16.3 17.1	Base Number (BN) mgK0H/g ASTM D2896 9.8 10.22 11.08 9.4	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m	limit/base >25 >20 limit/base >3 >20 >3 >20	Current 2 0 60 <1 966 1203 1045 1316 3637 current 3 <1 <1 0.2 7.1 18.7	history1 12 0 62 <1 966 1279 1065 1335 3785 history1 4 2 <1 history1 0.3 8.2 20.4	history2 69 0 67 <1 779 1117 889 1172 2698 history2 3 2 0 history2 0.3 8.5 22.2
Base Number (BN) mg KOH/g ASTM D2896 9.8 10.22 11.08 9.4		ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D718544 *ASTM D7624 *ASTM D7415 method	limit/base >25 >20 limit/base >3 >20 >30 limit/base	current 2 0 60 <1 966 1203 1045 1316 3637 current 3 <1 current 0.2 7.1 18.7 current	history1 12 0 62 <1 966 1279 1065 1335 3785 history1 4 2 <1 history1 4 2 <1 history1 0.3 8.2 20.4 history1	history2 69 0 67 <1 779 1117 889 1172 2698 history2 3 2 0 history2 0 history2 0.3 8.5 22.2 history2



OIL ANALYSIS REPORT





VISUAL		method	limit/bas	e current	history1	history
White Metal	scalar	*Visual	NONE		NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual	2 012	NEG	NEG	NEG
FLUID PROPER	TIES	method	limit/bas	e current	history1	history
Visc @ 100°C	cSt	ASTM D445	15.6	12.9	12.8	13.3
GRAPHS						
Iron (ppm)				Lead (ppm)	
250 Severe				100 Severe		
200 - 4				80 -		1
a 150 100 - Abnormal			mag	40 Abnormal		
50 -				20		
0				0		
Mar4/22 - Sep9/22 -		Jun23/23 .	May24/24 -	Mar4/22 -	Sep9/22 .	. 52/53/UNC
Sep		Juni	Mayź	Ma	Sei	unr
Aluminum (ppm)				Chromium	(ppm)	
50 Severe				50 Severe		
						••••••••••••••••••••••••••••••••••••••
Bandaria Abnormal		1		20 - Abnormal		
						* * * * * * * * * * * * * * * * * * *
10				10		
Mar4/22		3/23 -	4/24	Mar4/22	Sep9/22 -	3/23
Sep		Jun23/23	May24/24	Mar	Sep	ZUNC
Copper (ppm)				Silicon (ppi ⁸⁰ T Severe	m)	
Aproma						
300-				60		
틆 200 -				Abnormal		
100-				20-		
			-			
Mar4/22 Sep9/22		Jun23/23	May24/24	Mar4/22	Sep 9/22	7/671
	_	Jur	Mar		-	
Viscosity @ 100°	.		, -	Base Numb	ber	
18 - Abnormal			(B/HO	10.0 Base		
1			Mg K	8.0		
0 16 Base			mber	6.0		
12 - Abnormal			Base Number (mg KOH/g)	4.0		
10				0.0		
		Jun23/23	May24/24	Mar4/22	Sep 9/22	, c2/c2
Mar4/22 Sep 9/22		23	24	10		ý.

- To discuss this sample report, contact Customer Service at 1-800-237-1369.
- * Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Certificate L2367

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