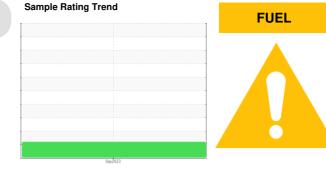


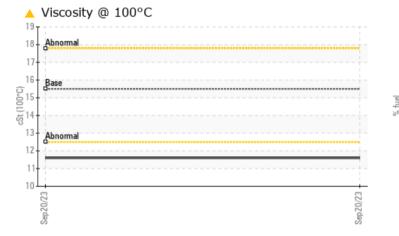
# **PROBLEM SUMMARY**



#### Machine Id **CATERPILLAR 745D 13398 (S/N 3T605951)** Component **Diesel Engine**

Fluid PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

### COMPONENT CONDITION SUMMARY



9.0	Fuel Dilution	
8.0	Severe	
7.0		
6.0		
⊒5.0· ₽ ≈4.0·	Abnormal	
	-	
3.0· 2.0·		
1.0		
0.0		-
	Sep 20/23	Sep20/23
	а <i>в</i>	Sep

### RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

### PROBLEMATIC TEST RESULTS

Sample Status		ABNORMAL	 		
Fuel	%	ASTM D3524	>5	<u> </u>	 
Visc @ 100°C	cSt	ASTM D445	15.5	<b>11.6</b>	 

Customer Id: TRANEW Sample No.: WC0831309 Lab Number: 05965053 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**

Sample Rating Trend

FUEL



CATERPILLAR 745D 13398 (S/N 3T605951)

Diesel Engine

PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

13398 (S/N 3T60	)5951)										
SYN BLEND 15W40 ( GAL)											
SAMPLE INFORM		method	limit/base	current	history1	history2					
Sample Number		Client Info		WC0831309							
Sample Date		Client Info		20 Sep 2023							
Machine Age	hrs	Client Info		807							
Oil Age	hrs	Client Info		807							
Oil Changed		Client Info		Changed							
Sample Status				ABNORMAL							
CONTAMINATION	N	method	limit/base	current	history1	history2					
Glycol		WC Method		NEG							
WEAR METALS		method	limit/base	current	history1	history2					
Iron	ppm	ASTM D5185m	>100	62							
Chromium	ppm	ASTM D5185m	>20	2							
Nickel	ppm	ASTM D5185m	>2	<1							
Titanium	ppm	ASTM D5185m	>2	<1							
Silver	ppm	ASTM D5185m	>2	0							
Aluminum	ppm		>25	5							
Lead	ppm	ASTM D5185m	>40	3							
Copper	ppm	ASTM D5185m	>330	956							
Tin	ppm	ASTM D5185m	>15	2							
Vanadium	ppm	ASTM D5185m		0							
Cadmium	ppm	ASTM D5185m		0							
ADDITIVES		method	limit/base	current	history1	history2					
Boron	ppm	ASTM D5185m	1	11							
Barium	ppm	ASTM D5185m	1	0							
Molybdenum	ppm	ASTM D5185m	60	48							
Manganese	ppm	ASTM D5185m	1	2							
Magnesium	ppm	ASTM D5185m	1010	584							
Calcium	ppm	ASTM D5185m		1409							
Phosphorus	ppm	ASTM D5185m	1150	933							
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	1270 2060	1121 2698							
CONTAMINANTS											
Silicon		method ASTM D5185m	limit/base	current 14	history1	history2					
Sodium	ppm ppm	ASTM D5185m	>20	4							
Potassium	ppm	ASTM D5185m	>20	2							
Fuel	%	ASTM D3524	>5	<u> </u>							
INFRA-RED		method	limit/base	current	history1	history2					
Soot %	%	*ASTM D7844	>3	0.5							
Nitration	Abs/cm	*ASTM D7624	>20	10.5							
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9							
FLUID DEGRADA		method	limit/base	current	history1	history2					
					niotory 1	- History 2					
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.3							

Base Number (BN) mg KOH/g ASTM D2896 9.6

### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a components first oil change.

Contamination

Light fuel dilution occurring.

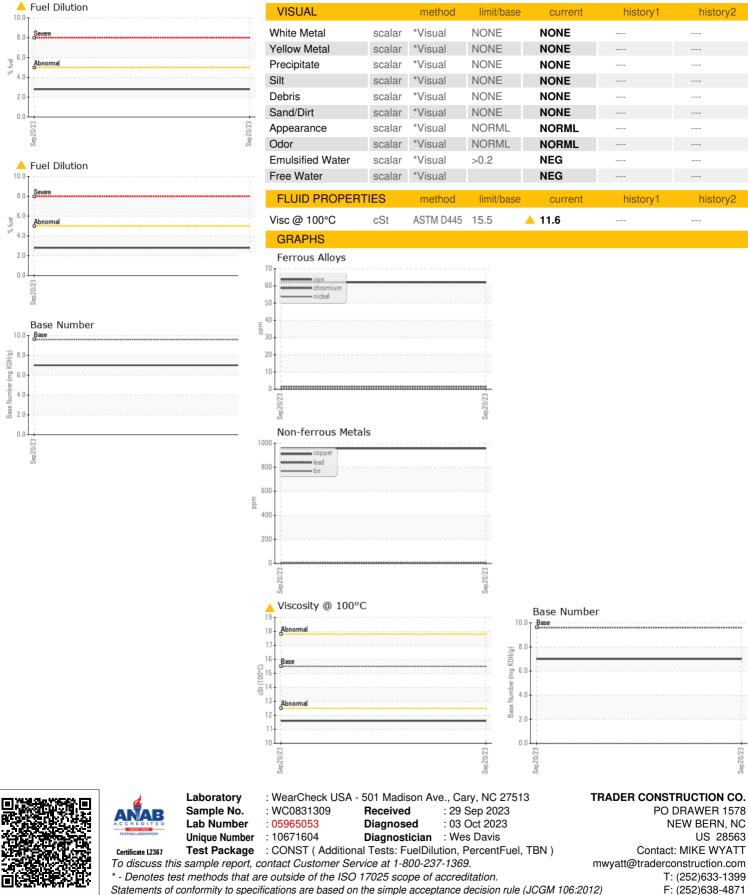
#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

7.0



# **OIL ANALYSIS REPORT**



Contact/Location: MIKE WYATT - TRANEW