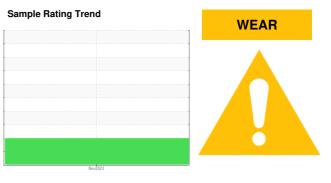


PROBLEM SUMMARY



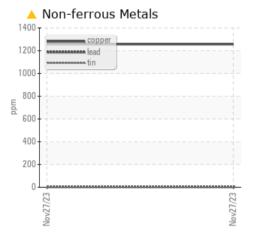
Keye

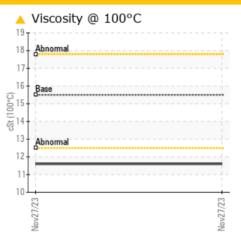
CATERPILLAR 745D 13407 (S/N 3T606505)

Diesel Engine

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

COMPONENT CONDITION SUMMARY





	Fuel Dilution	
9.0· 8.0·	Severe	
7.0	• • • • • • • • • • • • • • • • • • • •	
6.0·	Abnormal	
⊒5.0· ₽4.0·	•	
3.0		
2.0		
0.0		
	Nov27/23 Nov27/23 Nov27/23	100 10 1 2 2 2

RECOMMENDATION

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

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL			
Copper	ppm	ASTM D5185m	>330	🔺 1257			
Fuel	%	ASTM D3524	>5	<u> </u>			
Visc @ 100°C	cSt	ASTM D445	15.5	<u> </u>			

1

2

Customer Id: TRANEW Sample No.: WC0863011 Lab Number: 06026195 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id CATERPILLAR 745D 13407 (S/N 3T606505)

Diesel Engine

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

SAMPLE INFORMATION method



DIAGNOSIS	

Recommendation

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

🔺 Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

Contamination

Light fuel dilution occurring.

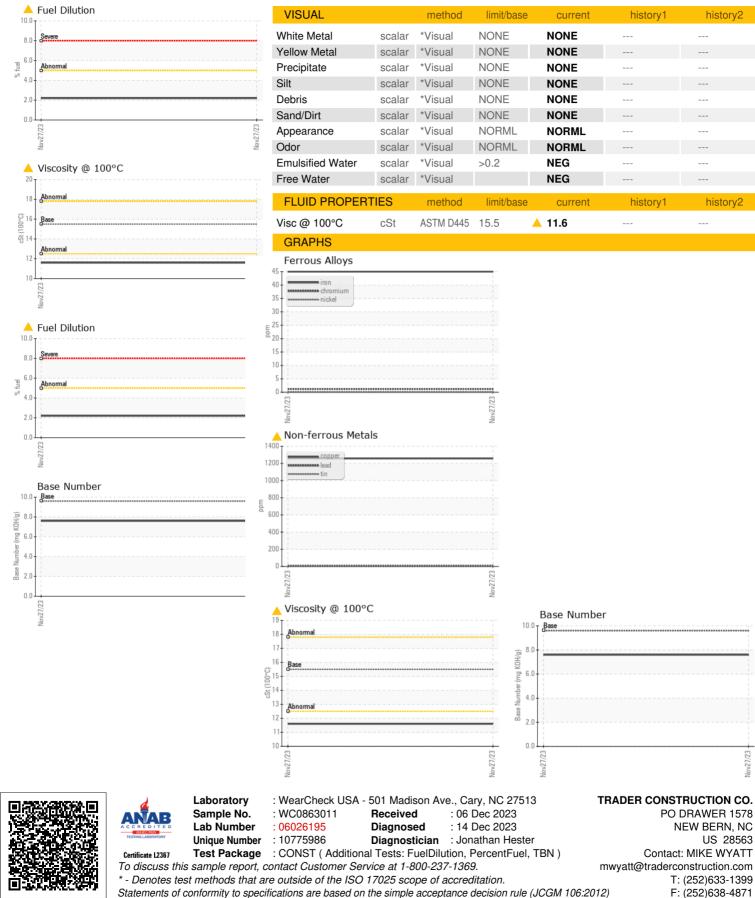
Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sample Number		Client Info		WC0863011		
Sample Date		Client Info		27 Nov 2023		
Machine Age	hrs	Client Info		573		
Oil Age	hrs	Client Info		573		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	45		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	3		
Lead	ppm	ASTM D5185m	>40	3		
Copper	ppm	ASTM D5185m	>330	<u> </u>		
Tin	ppm	ASTM D5185m	>15	3		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES	I- I-	method	limit/base	ourropt	historyd	bioton/2
				current	history1	history2
Boron	ppm	ASTM D5185m	1	27		
Barium	ppm	ASTM D5185m	1	3		
Molybdenum	ppm	ASTM D5185m	60	58		
Manganese	ppm	ASTM D5185m	1	2		
Magnesium	ppm	ASTM D5185m	1010	759		
Calcium	ppm	ASTM D5185m	1070	1867		
Phosphorus	ppm	ASTM D5185m	1150	1086		
Zinc	ppm	ASTM D5185m	1270	1400		
Sulfur	ppm	ASTM D5185m	2060	3801		
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	18		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	2		
Fuel	%	ASTM D3524	>5	<u> </u>		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	9.6		
Sulfation	Abs/.1mm		>30	23.0		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.8		
Base Number (BN)	mg KOH/g	ASTM D2896		7.6		
	9 101.09					



OIL ANALYSIS REPORT



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

Contact/Location: MIKE WYATT - TRANEW

US 28563

history2

history2