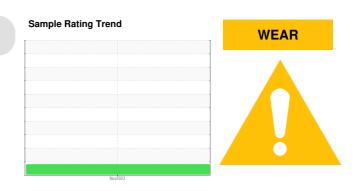


PROBLEM SUMMARY

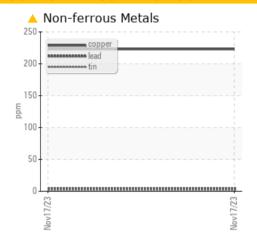
(66433Z) Walgreens - Tractor [Walgreens - Tractor] 136A624105

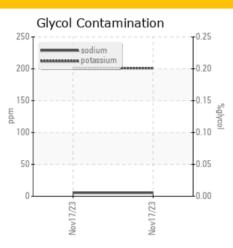
Diesel Engine

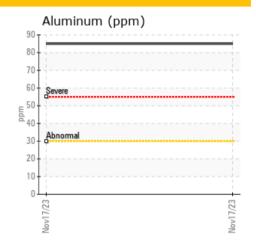
PETRO CANADA DURON SHP 10W30 (11 GAL)



COMPONENT CONDITION SUMMARY







RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	
Copper	ppm	ASTM D5185m	>150	223	

Customer Id: TSV1365 Sample No.: PCA0103682 Lab Number: 06035654 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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

RECOMMEND	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

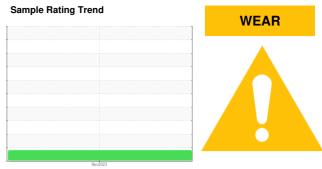


OIL ANALYSIS REPORT

(66433Z) Walgreens - Tractor [Walgreens - Tractor] 136A624105

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 0



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

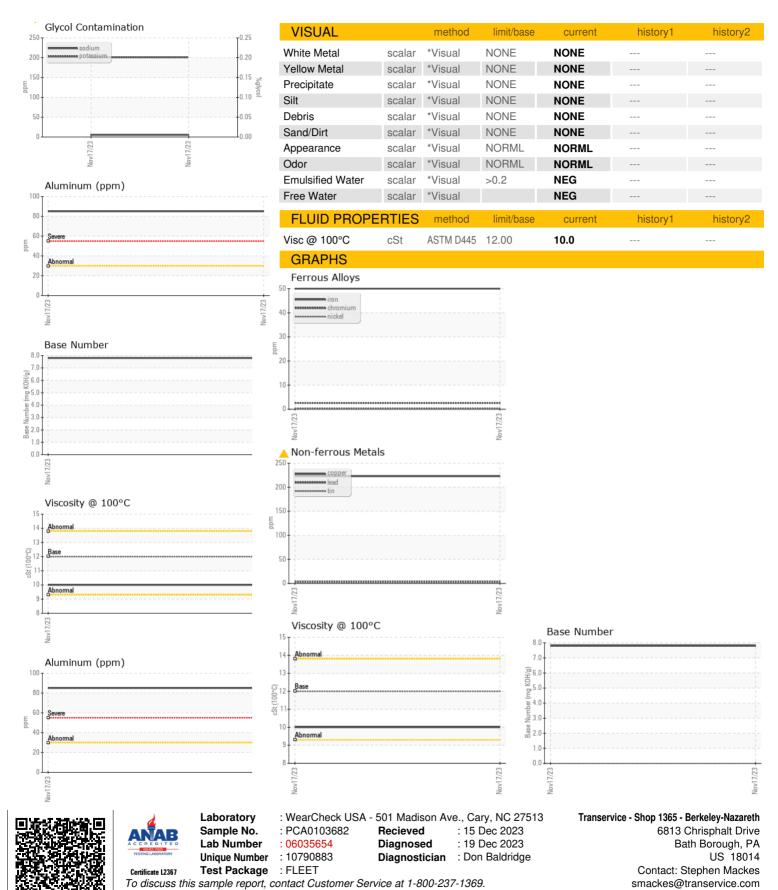
Fluid Condition

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

AL)				Nov2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0103682		
Sample Date		Client Info		17 Nov 2023		
Machine Age	mls	Client Info		31202		
Oil Age	mls	Client Info		31202		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>80	50		
Chromium	ppm	ASTM D5185m	>5	3		
Nickel	ppm	ASTM D5185m	>2	<1		
Γitanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>30	85		
_ead	ppm	ASTM D5185m	>30	4		
Copper	ppm	ASTM D5185m	>150	<u>223</u>		
Γin	ppm	ASTM D5185m	>5	2		
√anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	34		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	50	39		
Manganese	ppm	ASTM D5185m	0	4		
Magnesium	ppm	ASTM D5185m	950	546		
Calcium	ppm	ASTM D5185m	1050	1806		
Phosphorus	ppm	ASTM D5185m	995	758		
Zinc	ppm	ASTM D5185m	1180	859		
Sulfur	ppm	ASTM D5185m	2600	1936		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	9		
Sodium	ppm	ASTM D5185m		5		
Potassium	ppm	ASTM D5185m	>20	201		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7		
Nitration	Abs/cm	*ASTM D7624	>20	9.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.9		
Base Number (BN)	mg KOH/g	ASTM D2896		7.8		



OIL ANALYSIS REPORT



* - 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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