

Machine Id 2227005

Component Diesel Engine

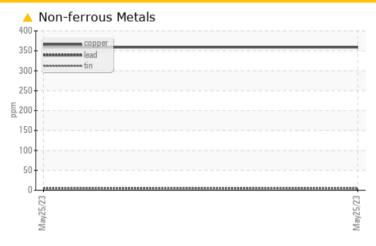
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PROBLEM SUMMARY

Sample Rating Trend WEAR

COMPONENT CONDITION SUMMARY

PETRO CANADA DURON SHP 10W30 (--- QTS)



RECOMMENDATION

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

PROBLEMATIC	C TEST	RESULT	S		
Sample Status				ABNORMAL	
Copper	ppm	ASTM D5185m	>330	<u> </u>	

Customer Id: PERBRIDE Sample No.: PCA0099150 Lab Number: 05930714 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@wearcheckusa.com

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 2227005

Component Diesel Engine

Fluid PETRO CANADA DURON SHP 10W30 (--- QTS)

DIAGNOSIS

A 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

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 acceptable for the time in service.

TS)				May2023		
SAMPLE INFOR		method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0099150		
Sample Date		Client Info		25 May 2023		
Machine Age	mls	Client Info		19813		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	52		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>4	1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	16		
Lead	ppm	ASTM D5185m	>40	5		
Copper	ppm	ASTM D5185m	>330	<u> </u>		
Tin	ppm	ASTM D5185m	>15	6		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	109		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	50	124		
Manganese	ppm	ASTM D5185m	0	5		
Magnesium	ppm	ASTM D5185m	950	672		
Calcium	ppm	ASTM D5185m	1050	1499		
Phosphorus	ppm	ASTM D5185m	995	700		
Zinc	ppm	ASTM D5185m	1180	862		
Sulfur	ppm	ASTM D5185m	2600	2290		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	57		
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25	57 3		
Sodium	ppm	ASTM D5185m		3		
Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	>20	3 57		
Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m method	>20 limit/base >3	3 57 current	 history1	 history2
Sodium Potassium INFRA-RED Soot %	ppm ppm %	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>20 limit/base >3	3 57 current 0.5	 history1	 history2
Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7824 *ASTM D7624	>20 limit/base >3 >20	3 57 current 0.5 12.0	 history1 	 history2
Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7824 *ASTM D7624	>20 limit/base >3 >20 >30	3 57 current 0.5 12.0 23.6	 history1 	 history2



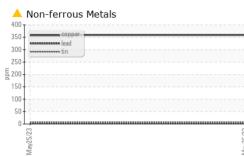
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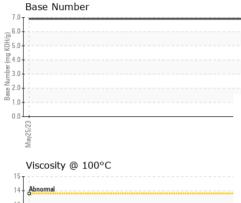
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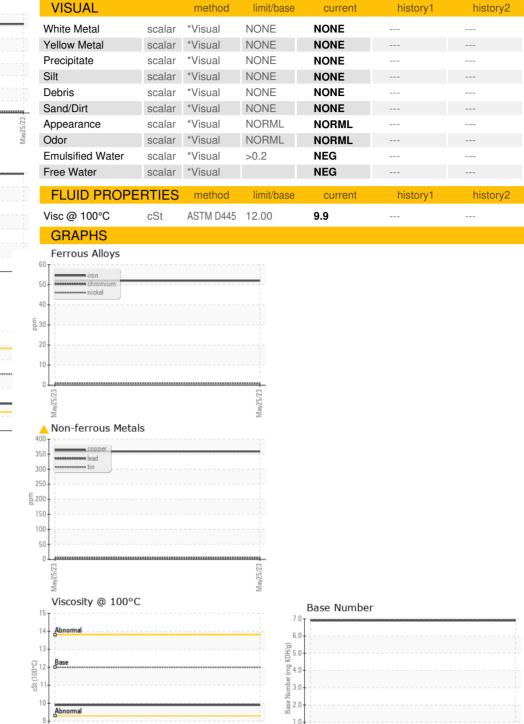
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OIL ANALYSIS REPORT





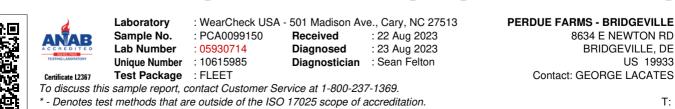


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Am05/03

May25/23





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

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US 19933