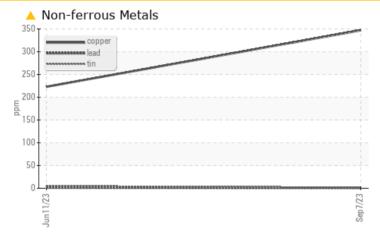


Machine Id 2126975 Component **Diesel Engine** Fluic PETRO CANADA DURON SHP 10W30 (--- QTS)

COMPONENT CONDITION SUMMARY

OIL



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	NORMAL			
Copper	ppm	ASTM D5185m	>330	A 347	223			

Customer Id: PERGEODE Sample No.: PCA0105486 Lab Number: 06031191 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

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



11 Jun 2023 Diag: Sean Felton

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. 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. There is no indication of any contamination in the oil. 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.





OIL ANALYSIS REPORT



Machine Id 2126975

Component Diesel Engine

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

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 component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

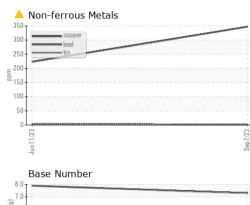
Fluid Condition

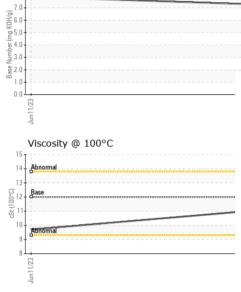
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

TS)						
			Jun2023	Sep2023		
SAMPLE INFOR	MATION		limit/base	current	history1	history2
Sample Number		Client Info		PCA0105486	PCA0100166	
Sample Date		Client Info		07 Sep 2023	11 Jun 2023	
Machine Age	mls	Client Info		0	19939	
Oil Age	mls	Client Info		0	19939	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	20	40	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m	>20	11	23	
Lead	ppm	ASTM D5185m	>40	<1	1	
Copper	ppm	ASTM D5185m	>330	A 347	223	
Tin	ppm	ASTM D5185m	>15	2	5	
Vanadium	ppm	ASTM D5185m	210	0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	1-1-	method	limit/base	current	history1	history2
Boron	000	ASTM D5185m	2	8	236	
	ppm		0	0	0	
Barium	ppm			-		
Molybdenum	ppm	ASTM D5185m	50	65	109	
Manganese	ppm	ASTM D5185m		1	5	
Magnesium	ppm	ASTM D5185m	950	911	708	
Calcium	ppm	ASTM D5185m	1050	1120	1462	
Phosphorus	ppm	ASTM D5185m	995	999	728	
Zinc	ppm	ASTM D5185m	1180	1210	879	
Sulfur	ppm	ASTM D5185m	2600	3030	2588	
		method	Disa Di Asia ang		biotorud	history2
CONTAMINAN	IIS	methou	limit/base	current	history1	
Silicon	ppm	ASTM D5185m	>25	11	44	
Silicon Sodium		ASTM D5185m ASTM D5185m	>25	11 2	44	
Silicon	ppm	ASTM D5185m		11	44	
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25	11 2	44	
Silicon Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	11 2 34	44 4 69	
Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>25 >20 limit/base >3	11 2 34 current	44 4 69 history1	 history2
Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>25 >20 limit/base >3 >20	11 2 34 <u>current</u> 0.3	44 4 69 history1 0.3	 history2
Silicon Sodium Potassium	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >3 >20	11 2 34 <u>current</u> 0.3 9.1	44 4 69 history1 0.3 10.0	 history2
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >3 >20 >30	11 2 34 <u>current</u> 0.3 9.1 20.2	44 4 69 history1 0.3 10.0 23.5	 history2



OIL ANALYSIS REPORT









Test Package : FLEET Certificate L2367 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)

Laboratory

Sample No.

T:

F:

Contact: ROBERT LOCKWOOD

Robert.Lockwood@Perdue.com