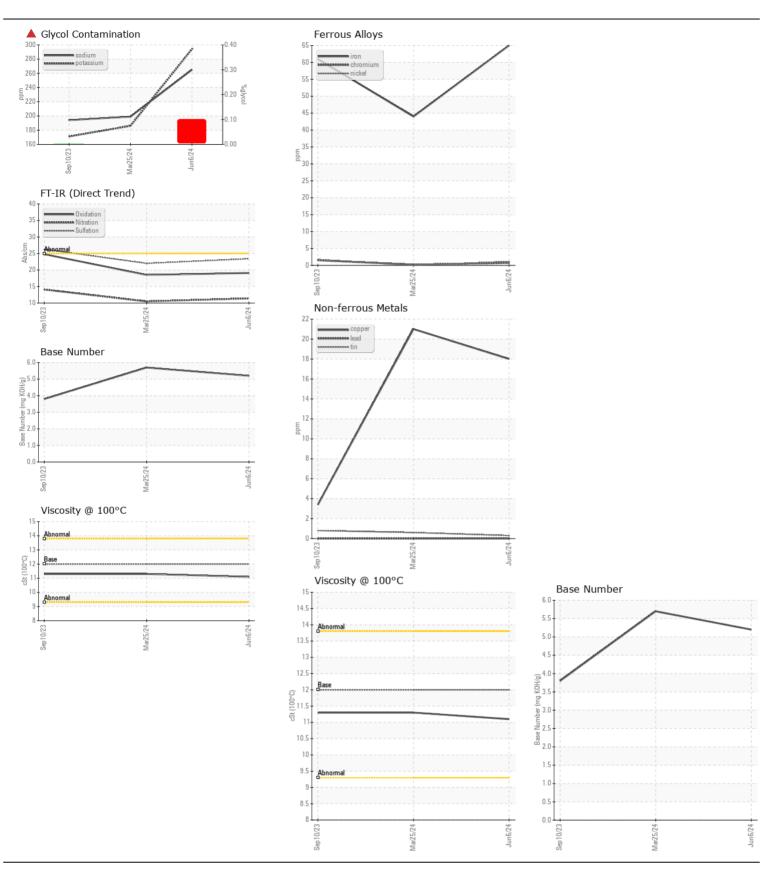
WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE ABNORMAL

Machine Id **26350**

Component Diesel Engine

PETRO CANADA DURON SHP 10W30 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		PCA0124277	PCA0114777	PCA0101155
	Sample Date		Client Info		06 Jun 2024	25 Mar 2024	10 Sep 2023
	Machine Age	mls	Client Info		0	657289	651631
	Oil Age	mls	Client Info		24000	20000	40000
	Filter Age	mls	Client Info		24000	20000	20000
	Oil Changed		Client Info		Changed	Not Changd	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				SEVERE	ABNORMAL	ABNORMAL
WEAD			AOTM DEGOE	400		4.4	
WEAR	Iron	ppm	ASTM D5185m		65	44	61
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	2
	Nickel	ppm	ASTM D5185m	>4	1	0	2
	Titanium	ppm	ASTM D5185m		3	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		6	4	5
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		18	21	3
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium White Metal	ppm	*Visual	NONE	0 NONE	0 NONE	0 NONE
	Yellow Metal	scalar		NONE	NONE	NONE	NONE
<u> </u>		scalar	*Visual	INOINE	INONE	NONE	INOINE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	11	6	8
Sodium and/or potassium levels are high. Test for glycol is positive.	Potassium	ppm	ASTM D5185m		<u> </u>	<u> </u>	<u> 171</u>
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		▲ 0.10	NEG	0.0
	Soot %	%	*ASTM D7844		0.8	0.6	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	11.4	10.5	14.1
	Sulfation	Abs/.1mm	*ASTM D7415		23.4	22.0	26.3
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE NONE	NONE NONE	NONE
	Sand/Dirt	scalar	*Visual	NORML	NORML	NORML	NORML
	Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
			Visuai				INLG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4 265	1 99	194
The DN was the indicates that there is a stable all all site, was a size or in the	Boron	ppm	ASTM D5185m	2	2	2	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	50	73	72	73
	Manganese	ppm	ASTM D5185m	0	0	<1	<1
	Magnesium	ppm	ASTM D5185m	950	889	905	967
	Calcium	ppm	ASTM D5185m		1117	1110	1123
		ppm	ASTM D5185m		881	935	1059
	Phosphorus	pp				1100	1000
	Zinc	ppm	ASTM D5185m		1239	1193	1309
	Zinc Sulfur	ppm	ASTM D5185m	2600	2568	2920	2491
	Zinc Sulfur Oxidation	ppm ppm Abs/.1mm	ASTM D5185m *ASTM D7414	2600	2568 19.1	2920 18.5	2491 24.8
	Zinc Sulfur	ppm ppm Abs/.1mm	ASTM D5185m *ASTM D7414	2600 >25	2568	2920	2491







Certificate L2367

Laboratory Sample No.

Lab Number : 06220723 Unique Number : 11098920

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0124277

Tested Diagnosed

Received

: 26 Jun 2024

: 27 Jun 2024

: 01 Jul 2024 - Jonathan Hester

Test Package: FLEET (Additional Tests: Glycol)

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)

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