

## Machine Id **9973** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 10W30 (--- GAL)**

## RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

WEAR		

All component wear rates are normal.

## CONTAMINATION

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

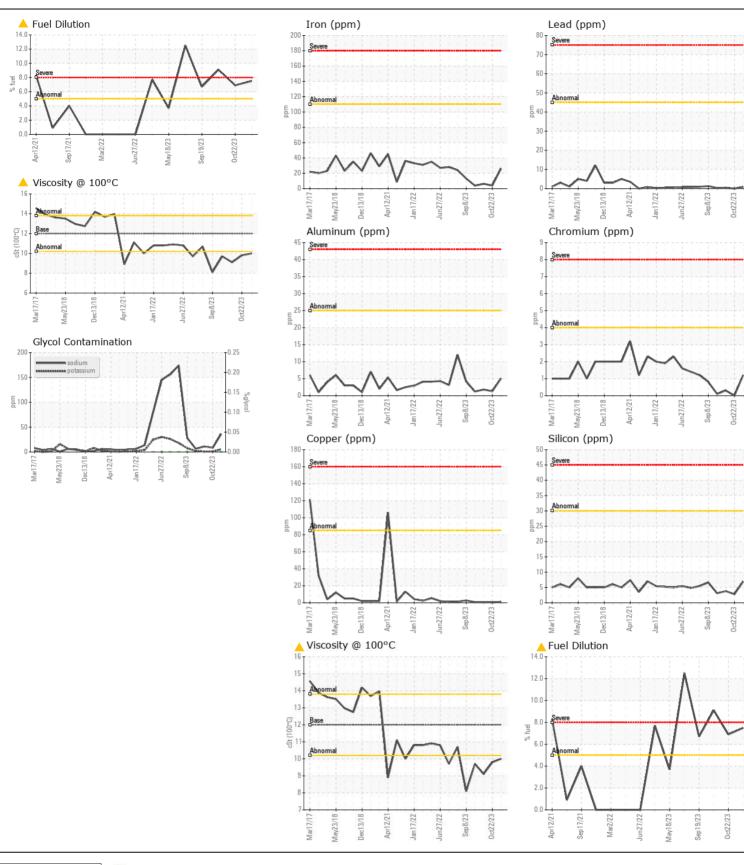
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	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0102644	GFL0093885	GFL0093890
	Sample Date		Client Info		07 Jan 2024	22 Oct 2023	04 Oct 2023
	Machine Age	hrs	Client Info		28678	0	28141
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				ABNORMAL	ABNORMAL	SEVERE
	Iron		ASTM D5185(m)	>110	26	4	6
	Chromium	ppm ppm	ASTM D5185(m)	>4	1	0	<1
	Nickel	ppm	ASTM D5185(m)	>2	- <1	0	0
	Titanium	ppm	ASTM D5185(m)	~_	0	0	0
	Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
	Aluminum	ppm	ASTM D5185(m)	>25	5	1	2
	Lead	ppm	ASTM D5185(m)	>45	ر 1	0	<1
	Copper	ppm	ASTM D5185(m)	>85	1	<1	<1
	Tin	ppm	ASTM D5185(m)	>4	0	0	0
	Vanadium	ppm	ASTM D5185(m)	~7	0	0	0
	vanadidini						0
	Silicon	ppm	ASTM D5185(m)	>30	7	3	4
	Potassium	ppm	ASTM D5185(m)	>20	6	<1	<1
	Fuel	%	ASTM D7593*	>5	<b>4</b> 7.5	<b>6</b> .9	9.1
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	ASTM D7922*		0.0	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0.6	0.1	0.2
	Nitration	Abs/cm	ASTM D7624*	>20	10.5	5.8	7.5
	Sulfation	Abs/.1mm	ASTM D7415*	>30	21.0	18.4	21.6
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185(m)		36	8	11
	Boron	ppm	ASTM D5185(m)	2	5	7	2
	Barium	ppm	ASTM D5185(m)	0	0	<1	<1
	Molybdenum	ppm	ASTM D5185(m)	50	56	56	52
	Manganese	ppm	ASTM D5185(m)	0	0	0	0
	Magnesium	ppm	ASTM D5185(m)	950	853	881	821
	Calcium	ppm	ASTM D5185(m)	1050	965	979	897
	Phosphorus	ppm	ASTM D5185(m)	995	910	937	883
	Zinc	ppm	ASTM D5185(m)	1180	1061	1088	1020
	Sulfur	ppm	ASTM D5185(m)	2600	2437	2422	2229
	Oxidation	Abs/.1mm	ASTM D7414*	>25	18.1	14.2	20.3
	Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>10.0</b>	<b>9</b> .8	<b>9</b> .1

## FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Submitted By: Brian Gagne



: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW Laboratory CALA Sample No. Recieved : 22 Jan 2024 8409 -15th Street NW : GFL0102644 Lab Number : 02610162 Diagnosed : 23 Jan 2024 Edmonton, AB ISO 17025:2017 Diagnostician : Wes Davis Accredited CA T6P 0B8 **Unique Number** : 5711248 Laboratory Test Package : MOB 1 (Additional Tests: Glycol, PercentFuel) Contact: Tim Greig To discuss this sample report, contact Customer Service at 1-800-268-2131. tgreig@gflenv.com T: (780)231-0521 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: Validity of results and interpretation are based on the sample and information as supplied.