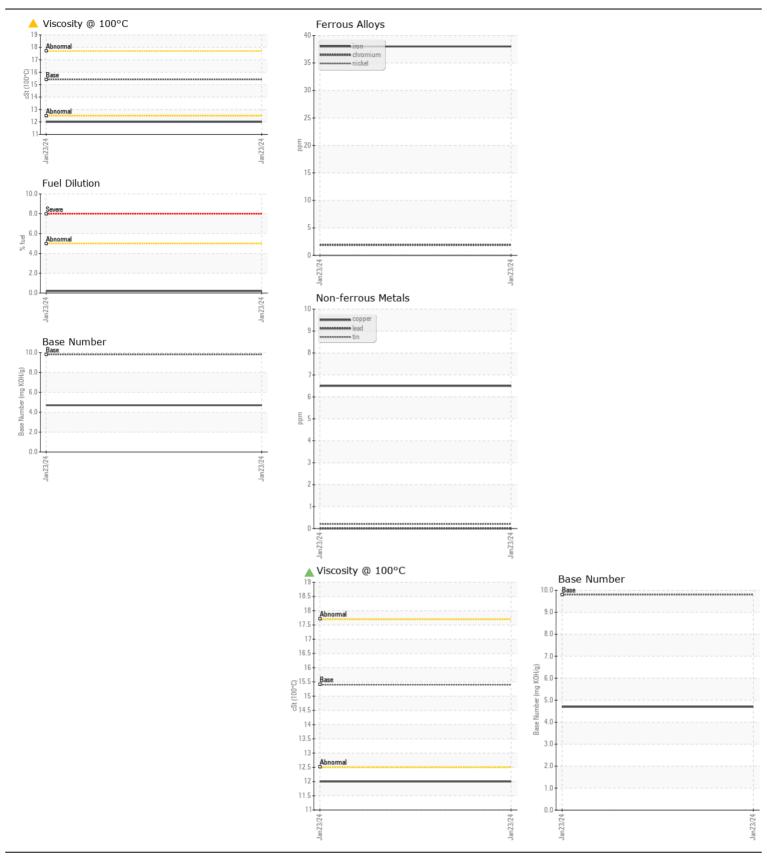


Machine Id **517005** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (--- GAL)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0100396		
	Sample Date		Client Info		23 Jan 2024		
	Machine Age	hrs	Client Info		9774		
	Oil Age	hrs	Client Info		571		
	Filter Age	hrs	Client Info		571		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ATTENTION		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		38		
	Chromium	ppm	ASTM D5185m		2		
	Nickel	ppm	ASTM D5185m	>2	0		
	Titanium	ppm	ASTM D5185m	0	<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		20		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		6		
	Tin	ppm	ASTM D5185m	>5	<1		
	Vanadium	ppm	ASTM D5185m	NONE	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION Fuel content negligible. There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>20	4		
	Potassium	ppm	ASTM D5185m		31		
	Fuel	%	ASTM D3524		0.2		
	Water		WC Method		NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.5		
	Nitration	Abs/cm	*ASTM D7624		8.3		
	Sulfation	Abs/.1mm	*ASTM D7415		20.3		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.2	NEG		
FLUID CONDITION The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.							
	Sodium	ppm	ASTM D5185m		2		
	Boron	ppm	ASTM D5185m	0	36		
	Barium	ppm	ASTM D5185m	0	0		
	Molybdenum	ppm	ASTM D5185m	60	59		
	Manganese	ppm	ASTM D5185m	0	<1		
	Magnesium	ppm	ASTM D5185m	1010	416		
	Calcium	ppm	ASTM D5185m	1070	1720		
	Phosphorus	ppm	ASTM D5185m	1150	952		
	Zinc	ppm	ASTM D5185m	1270	1226		
	Sulfur	ppm	ASTM D5185m	2060	3030		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2		
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	4.7		
	N" C 1001-	<u> </u>	A OTH A D A IT	4 - 4			

Visc @ 100°C cSt ASTM D445 15.4

12.0



GFL Environmental - 935 - Omro HC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : GFL0100396 Recieved : 30 Jan 2024 250 Alder Avenue Lab Number : 06073485 Diagnosed : 31 Jan 2024 Omro, WI Unique Number : 10850162 Diagnostician : Don Baldridge US 54963 Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel) Contact: Tim Kieffer Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. tim.kieffer@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (608)219-0288 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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Submitted By: See also GFL935 - Tim Kieffer