

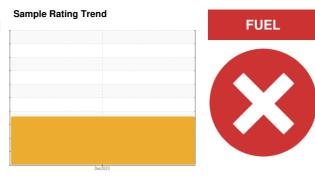
OIL ANALYSIS REPORT

SHARP BUS LINES Machine Id INTERNATIONAL 1093

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated.

Contamination

There is a high amount of fuel present in the oil. Light concentration of carbon/soot present in the oil. Tests confirm the presence of fuel in the oil.

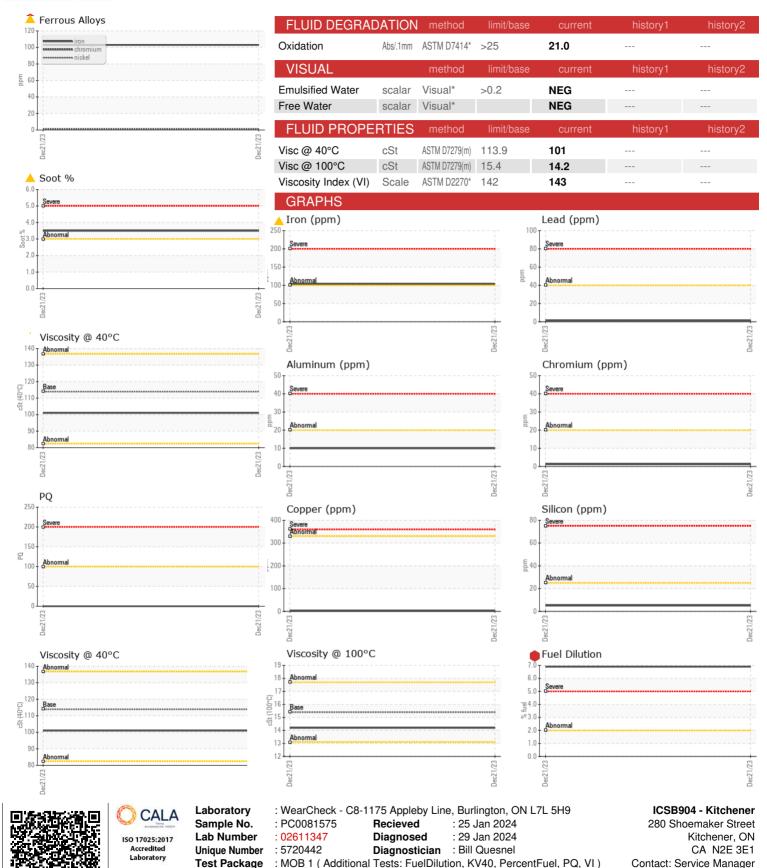
Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

GAL)				Dec2023		
SAMPLE INFORM	/ATION	method	limit/base	current	history	1 history2
Sample Number		Client Info		PC0081575		
Sample Date		Client Info		21 Dec 2023		
Machine Age	kms	Client Info		214367		
Oil Age	kms	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
CONTAMINATI	ON	method	limit/base	current	history	1 history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS	3	method	limit/base	current	history	1 history2
PQ		ASTM D8184*	100	0		
Iron	ppm	ASTM D5185(m)	>100	<u>^</u> 103		
Chromium	ppm	ASTM D5185(m)	>20	1		
Nickel	ppm	ASTM D5185(m)	>4	1		
Titanium	ppm	ASTM D5185(m)	•	0		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>20	10		
Lead	ppm	ASTM D5185(m)	>40	1		
Copper	ppm	ASTM D5185(m)	>330	2		
Tin	ppm	ASTM D5185(m)	>15	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history	1 history2
Boron	ppm	ASTM D5185(m)	0	1		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	60	59		
Manganese	ppm	ASTM D5185(m)	0	<1		
Magnesium	ppm	ASTM D5185(m)	1010	898		
Calcium	ppm	ASTM D5185(m)	1070	982		
Phosphorus	ppm	ASTM D5185(m)	1150	938		
Zinc	ppm	ASTM D5185(m)	1270	1077		
Sulfur	ppm	ASTM D5185(m)	2060	2397		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	method	limit/base	current	history	1 history2
Silicon	ppm	ASTM D5185(m)	>25	5		
Sodium	ppm	ASTM D5185(m)		2		
Potassium	ppm	ASTM D5185(m)	>20	2		
Fuel	%	ASTM D7593*	>2.0	6.9		
INFRA-RED		method	limit/base	current	history	1 history2
Soot %	%	ASTM D7844*	>3	▲ 3.5		
Nitration	Abs/cm	ASTM D7624*	>20	14.8		
Sulfation	Abs/.1mm	ASTM D7415*	>30	28.0		
		2270				



OIL ANALYSIS REPORT



To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.

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