

OIL ANALYSIS REPORT

SHARP BUS LINES **INTERNATIONAL 1335** Component

Diesel Engine

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

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. We advise that you check for faulty combustion, plugged air filters, or aftercoolers. 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.

A 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. There is an abnormal amount of solids and carbon 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.

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L)				Nov2023		
SAMPLE INFOR		method	limit/base	current	history1	history2
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Sample Number		Client Info		PC0081502		
Sample Date	Luce e	Client Info		03 Nov 2023		
Machine Age	kms	Client Info		265252		
Oil Age	kms	Client Info		2000		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR META	LS	method	limit/base	current	history1	history2
PQ		ASTM D8184*		4		
ron	ppm	ASTM D5185(m)	>100	- 100		
Chromium	ppm	ASTM D5185(m)	>20	3		
Nickel	ppm	ASTM D5185(m)		1		
Titanium	ppm	ASTM D5185(m)	77	0		
Silver	ppm	ASTM D5185(m)	>3	<1		
Aluminum	ppm	ASTM D5185(m)	>20	18		
Lead	ppm	ASTM D5185(m)		1		
Copper	ppm	ASTM D5185(m)	>330	1		
Tin	ppm	ASTM D5185(m)		<1		
Antimony	ppm	ASTM D5185(m)	210	0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m) ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
	PPIII					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	2		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	60	49		
Manganese	ppm	ASTM D5185(m)	0	<1		
Magnesium	ppm	ASTM D5185(m)	1010	735		
Calcium	ppm	ASTM D5185(m)	1070	807		
Phosphorus	ppm	ASTM D5185(m)	1150	756		
Zinc	ppm	ASTM D5185(m)	1270	926		
Sulfur	ppm	ASTM D5185(m)	2060	1858		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon		ASTM D5185(m)	>25	14		
Sodium	ppm	ASTM D5185(m)	>20	3		
	ppm		00	3		

Sample Rating Trend

SOOT

Silicon	ppm	ASTM D5185(m)	>25	14		
Sodium	ppm	ASTM D5185(m)		3		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Fuel	%	ASTM D7593*	>2.0	• 13.8		
INFRA-RED		method	limit/base	current	history1	history2
INFRA-RED Soot %	%	method ASTM D7844*		current 6.2	history1	history2
	% Abs/cm	ASTM D7844*	>3			



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