

## **OIL ANALYSIS REPORT**



Machine Id

### 933031

#### Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- LTR)

#### DIAGNOSIS

#### A Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components.

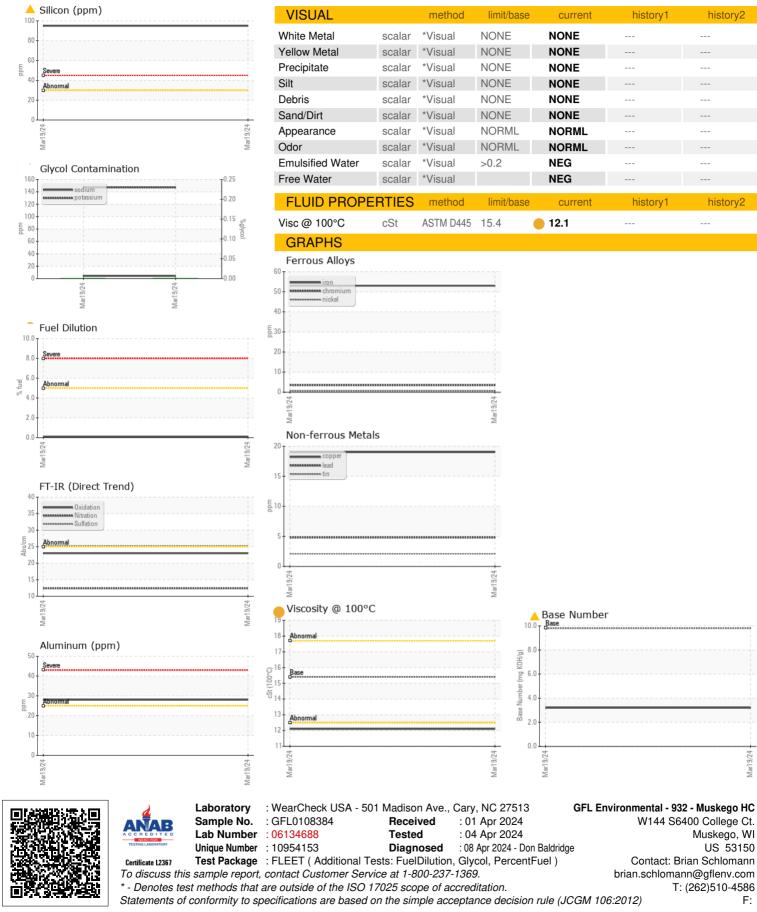
#### Fluid Condition

The oil viscosity is lower than normal. The BN level is low. Confirm oil type.

SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108384		
Sample Date		Client Info		19 Mar 2024		
Machine Age	nrs	Client Info		1143		
Oil Age	nrs	Client Info		1143		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATIC	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
lron p	opm	ASTM D5185m	>110	53		
Chromium p	opm	ASTM D5185m	>4	4		
Nickel p	opm	ASTM D5185m	>2	<1		
Titanium p	opm	ASTM D5185m		<1		
Silver p	opm	ASTM D5185m	>2	0		
Aluminum p	opm	ASTM D5185m	>25	28		
Lead p	opm	ASTM D5185m	>45	5		
Copper p	opm	ASTM D5185m	>85	19		
Tin p	opm	ASTM D5185m	>4	2		
Vanadium p	opm	ASTM D5185m		0		
Cadmium p	opm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron p	opm	ASTM D5185m	0	18		
Barium p	opm	ASTM D5185m	0	3		
Molybdenum p	opm	ASTM D5185m	60	65		
Manganese p	opm	ASTM D5185m	0	5		
Magnesium p	opm	ASTM D5185m	1010	802		
Calcium p	opm	ASTM D5185m	1070	1285		
Phosphorus p	opm	ASTM D5185m	1150	634		
Zinc p	opm	ASTM D5185m	1270	904		
Sulfur p	opm	ASTM D5185m	2060	2369		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon p	opm	ASTM D5185m	>30	<mark>人</mark> 95		
Sodium p	opm	ASTM D5185m		4		
Potassium p	opm	ASTM D5185m	>20	147		
Fuel	%	ASTM D3524	>5	0.1		
Glycol	%	*ASTM D2982		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0		
Nitration A	Abs/cm	*ASTM D7624	>20	12.4		
	lbs/.1mm	*ASTM D7415	>30	25.1		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation A	lbs/.1mm	*ASTM D7414	>25	23.0		



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