

# **OIL ANALYSIS REPORT**

Sample Rating Trend



# Machine Id 913149

#### Component Diesel Engine

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

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

Elevated aluminum (AI) 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. There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)			Sep2023	Nov2023		
SAMPLE INFORM	<b>/</b> ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098461	GFL0083715	
Sample Date		Client Info		03 Nov 2023	21 Sep 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	ATTENTION	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	0.3	
Glycol		WC Method		NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	64	56	
Chromium	ppm	ASTM D5185m	>4	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>2	<1	0	
Aluminum	ppm	ASTM D5185m	>25	32	27	
Lead	ppm	ASTM D5185m	>45	0	<1	
Copper	ppm	ASTM D5185m	>85	47	37	
Tin	ppm	ASTM D5185m	>4	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	20	37	
Barium	ppm	ASTM D5185m	0	7	0	
Molybdenum	ppm	ASTM D5185m	60	23	18	
Vanganese	ppm	ASTM D5185m	0	2	2	
Vagnesium	ppm	ASTM D5185m	1010	767	757	
Calcium	ppm	ASTM D5185m	1070	1355	1432	
Phosphorus	ppm	ASTM D5185m	1150	806	723	
Zinc	ppm	ASTM D5185m	1270	944	883	
Sulfur	ppm	ASTM D5185m	2060	3145	3450	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	12	13	
Sodium	ppm	ASTM D5185m		4	4	
Potassium	ppm	ASTM D5185m	>20	93	75	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	11.2	9.8	
	AL / 4	*ASTM D7415	>30	24.7	21.9	
Sulfation	Abs/.1mm	A01101410	200			
Sulfation FLUID DEGRAD			limit/base	current	history1	history2
Sulfation FLUID DEGRAD Oxidation						history2



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