

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT



Machine Id 933010

Fluid

Component Natural Gas Engine

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

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. Oil and filter 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 moderate concentration of dirt present in the oil. High amount of ingressed dirt has caused abrasive wear to the component.

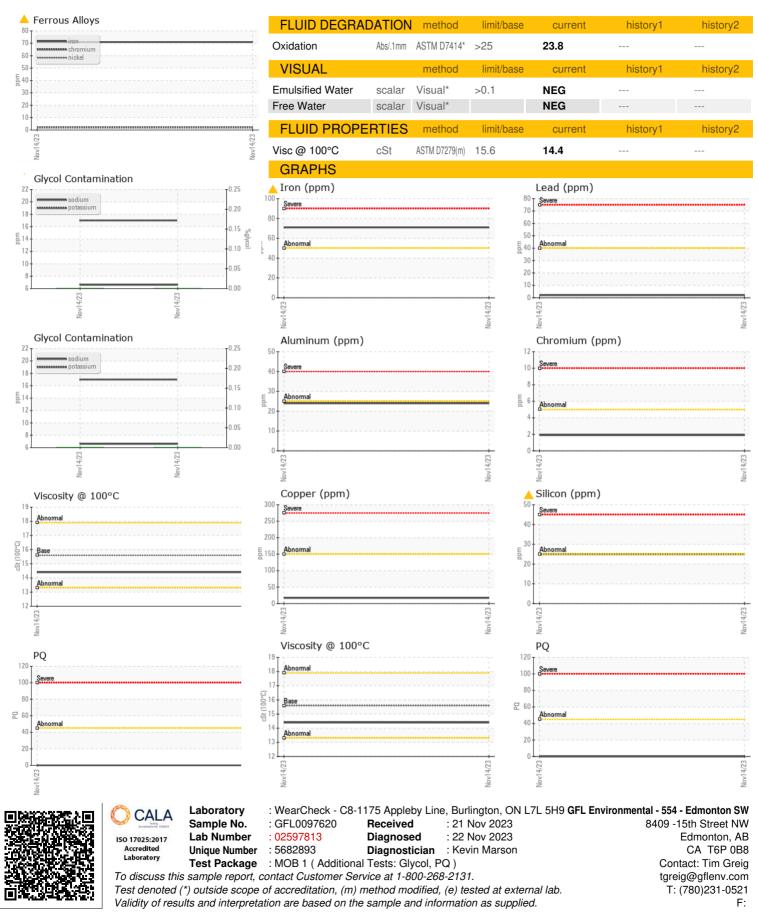
Fluid Condition

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

ON HP 15W40 (GAL	-				
JN HP 15W40 (GAL)			Nov2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0097620		
Sample Date		Client Info		14 Nov 2023		
Machine Age	hrs	Client Info		1155		
Oil Age	hrs	Client Info		1155		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS	S	method	limit/base	current	history1	history2
PQ		ASTM D8184*	>45	0		
Iron	ppm	ASTM D5185(m)	>50	<u> </u>		
Chromium	ppm	ASTM D5185(m)	>5	2		
Nickel	ppm	ASTM D5185(m)	>4	2		
Titanium	ppm	ASTM D5185(m)	>5	0		
Silver	ppm	ASTM D5185(m)	>3	<1		
Aluminum	ppm	ASTM D5185(m)	>25	24		
Lead	ppm	ASTM D5185(m)	>40	2		
Copper	ppm	ASTM D5185(m)	>150	17		
Tin	ppm	ASTM D5185(m)	>4	1		
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	history1	history2
Boron	ppm	ASTM D5185(m)	0	8		
Barium	ppm	ASTM D5185(m)	0	3		
Molybdenum	ppm	ASTM D5185(m)	60	60		
Manganese	ppm	ASTM D5185(m)	0	10		
Magnesium	ppm	ASTM D5185(m)	1010	790		
Calcium	ppm	ASTM D5185(m)	1070	1439		
Phosphorus	ppm	ASTM D5185(m)	1150	756		
Zinc	ppm	ASTM D5185(m)	1270	928		
Sulfur	ppm	ASTM D5185(m)	2060	1909		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<u> </u>		
Sodium	ppm	ASTM D5185(m)		7		
Potassium	ppm	ASTM D5185(m)	>20	17		
Glycol	%	ASTM D7922*		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0		
Nitration	Abs/cm	ASTM D7624*	>20	12.7		
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.4		



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