

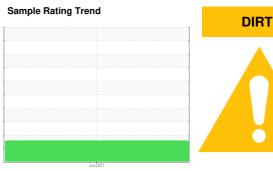
OIL ANALYSIS REPORT

Machine Id **431001**

Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (--- LTR)



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

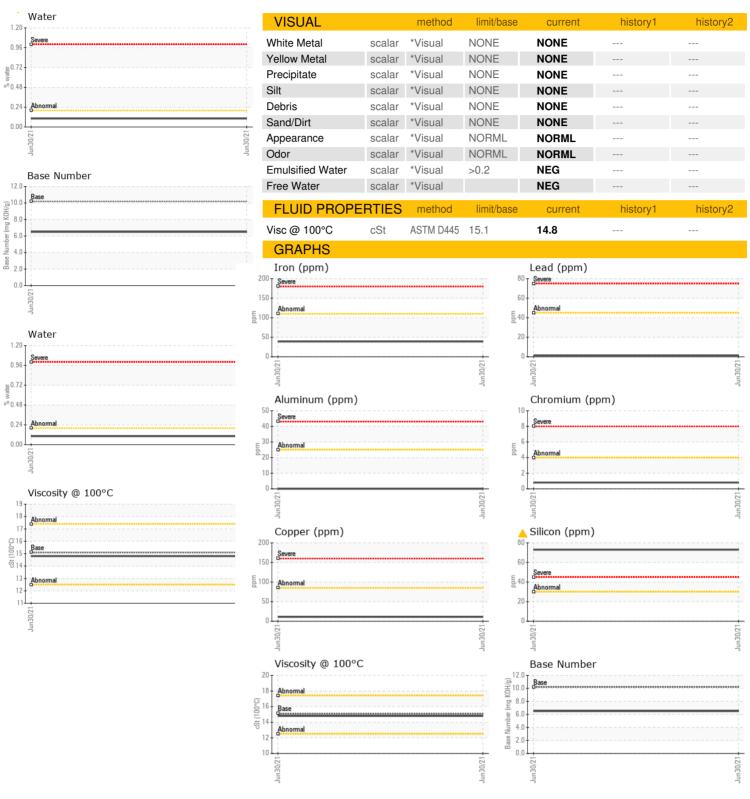
Fluid Condition

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

LTR)				Jun 2021		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0028910		
Sample Date		Client Info		30 Jun 2021		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		450		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	39		
Chromium	ppm	ASTM D5185m	>4	<1		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	0		
Lead	ppm	ASTM D5185m	>45	1		
Copper	ppm	ASTM D5185m	>85	11		
Tin	ppm	ASTM D5185m	>4	<1		
Antimony	ppm	ASTM D5185m		0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	24		
Barium	ppm	ASTM D5185m	5	2		
Molybdenum	ppm	ASTM D5185m	50	51		
Manganese	ppm	ASTM D5185m	0	3		
Magnesium	ppm	ASTM D5185m	560	763		
Calcium	ppm	ASTM D5185m	1510	1189		
Phosphorus	ppm	ASTM D5185m	780	652		
Zinc	ppm	ASTM D5185m	870	862		
Sulfur	ppm	ASTM D5185m	2040	1871		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	△ 73		
Sodium	ppm	ASTM D5185m		7		
Potassium	ppm	ASTM D5185m	>20	7		
Water	%	ASTM D6304	>0.2	0.102		
ppm Water	ppm	ASTM D6304	>2000	1020		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	13.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	24		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.3		
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	6.5		



OIL ANALYSIS REPORT





Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: GFL0028910 : 05310245 : 9594214

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 27 Jul 2021 Diagnostician : Doug Bogart

: 23 Jul 2021

Test Package : MOB1+ (Additional Tests: KF)

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. GFL Environmental - 883 - Orange City

1378 South Volusia Ave Orange City, FL US 32763

Contact: JEFF COOPERSMITH JCOOPERSMITH@GFLENV.COM T: (386)503-8468

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: GFL883 [WUSCAR] 05310245 (Generated: 09/06/2023 19:39:46) Rev: 1

Contact/Location: GFL883, GFL884, GFL885 - JEFF COOPERSMITH - GFL883

F: