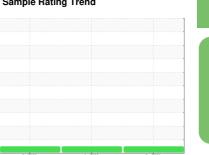


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id 731068

Component **Natural Gas Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

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. There is no indication of any contamination in the

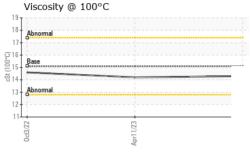
Fluid Condition

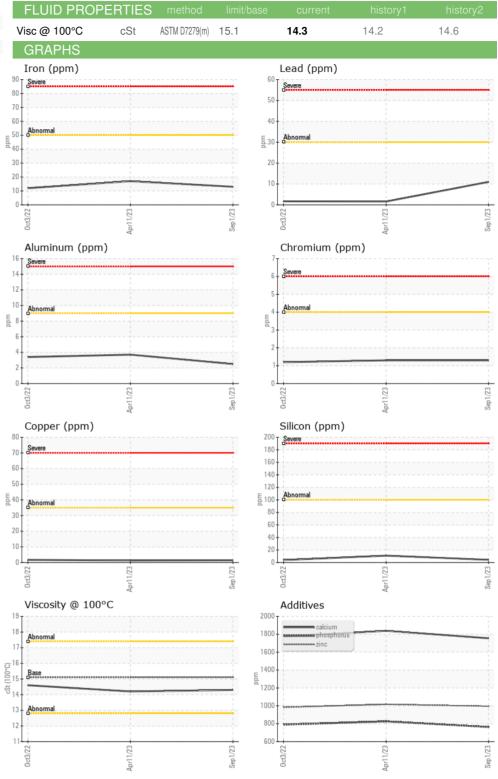
The condition of the oil is acceptable for the time in service.

GEO LD 15W40 (-	LIM)	Oc	12022	Apr2023 Sep20	23	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0085904	GFL0064321	GFL0060981
Sample Date		Client Info		01 Sep 2023	11 Apr 2023	03 Oct 2022
Machine Age	hrs	Client Info		5546	4409	3324
Oil Age	hrs	Client Info		1200	1200	1000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>50	13	17	12
Chromium	ppm	ASTM D5185(m)	>4	1	1	1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
- Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Muminum	ppm	ASTM D5185(m)	>9	2	4	3
.ead	ppm	ASTM D5185(m)	>30	11	2	2
Copper	ppm	ASTM D5185(m)		1	1	2
in	ppm	ASTM D5185(m)	>4	- <1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
/anadium	ppm	ASTM D5185(m)		0	0	0
Beryllium		ASTM D5185(m)		0	0	0
Cadmium	ppm ppm	ASTM D5185(m)		0	0	0
ADDITIVES	ррпп	method	limit/base	current		history2
Boron	nnm	ASTM D5185(m)	50	9	history1	9
	ppm	ASTM D5185(m)		ء <1	0	0
Barium Aalubdaaum	ppm	. ,			66	56
Molybdenum	ppm	ASTM D5185(m)	50	68		
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	560	645	573	593
Calcium	ppm	ASTM D5185(m)	1510	1755	1838	1775
Phosphorus	ppm	ASTM D5185(m)	780	763	826	790
Zinc	ppm	ASTM D5185(m)		995	1017	983
Sulfur	ppm	ASTM D5185(m)	2040	2163	2271	2158
ithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>+100	4	11	4
Sodium	ppm	ASTM D5185(m)		9	9	8
Potassium	ppm	ASTM D5185(m)	>20	5	0	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	12.0	8.4	12.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.2	21.5	25.1
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
FLUID DEGRA	Abs/.1mm	method ASTM D7414*	limit/base	20.1	history1 12.5	history2 20.6
FLUID DEGRA						
FLUID DEGRAD		ASTM D7414*	>25	20.1	12.5	20.6



OIL ANALYSIS REPORT







CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: GFL0085904 : 02586311

To discuss this sample report, contact Customer Service at 1-800-268-2131.

: 5655377 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 209 - Hamilton Received : 03 Oct 2023 Diagnosed : 03 Oct 2023

Diagnostician : Wes Davis

560 Seaman Street Stoney Creek, ON **CA L8E 3X7** Contact: Fred Carleton fred.carleton@gflenv.com T: (289)925-6693

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

F: (905)664-9008