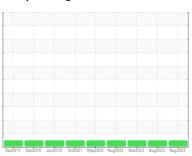


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **4701** Component **Natural Gas Engine** Fluid

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

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

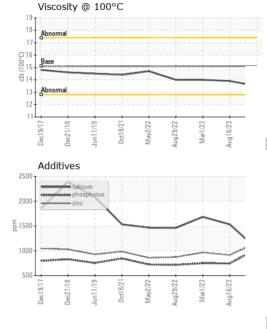
Fluid Condition

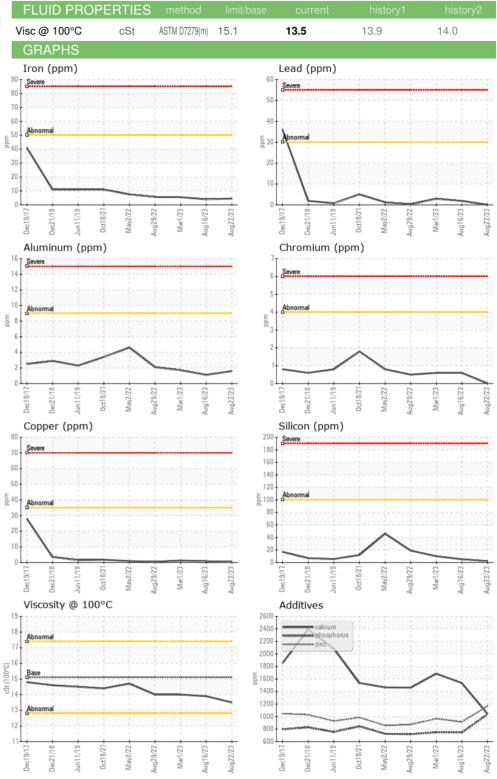
Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

N GEO LD 15W40 (GAL) Dec2017 Dec2016 Jun2019 Occ021 May2022 Aug2022 Mad2023 Aug2023 Aug20						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0085837	GFL0085856	GFL0071061
Sample Date		Client Info		22 Aug 2023	16 Aug 2023	01 Mar 2023
Machine Age	hrs	Client Info		15852	12775	11741
Oil Age	hrs	Client Info		600	1200	1200
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	4	4	6
Chromium	ppm	ASTM D5185(m)	>4	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>9	2	1	2
Lead	ppm	ASTM D5185(m)	>30	0	2	3
Copper	ppm	ASTM D5185(m)	>35	<1	<1	1
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	50	2	19	12
Barium	ppm	ASTM D5185(m)	5	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	57	53	56
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	560	952	576	541
Calcium	ppm	ASTM D5185(m)	1510	1042	1533	1685
Phosphorus	ppm	ASTM D5185(m)	780	1036	745	749
Zinc	ppm	ASTM D5185(m)	870	1166	914	965
Sulfur	ppm	ASTM D5185(m)	2040	2527	2035	2150
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>+100	2	5	10
Sodium	ppm	ASTM D5185(m)		2	7	16
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0.1	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.6	10.4	7.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.1	24.5	20.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.8	19.0	13.8
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG



OIL ANALYSIS REPORT







CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number** Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 209 - Hamilton : GFL0085837

: 02579057 : 5632117

Received Diagnosed

Diagnostician

: Wes Davis

: 29 Aug 2023 : 29 Aug 2023

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

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