

Machine Id

WEAR ABNORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

8400 Component Natural Gas Engine

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

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

VVEAE	2

Chromium ppm levels are abnormal. Ring wear is indicated.

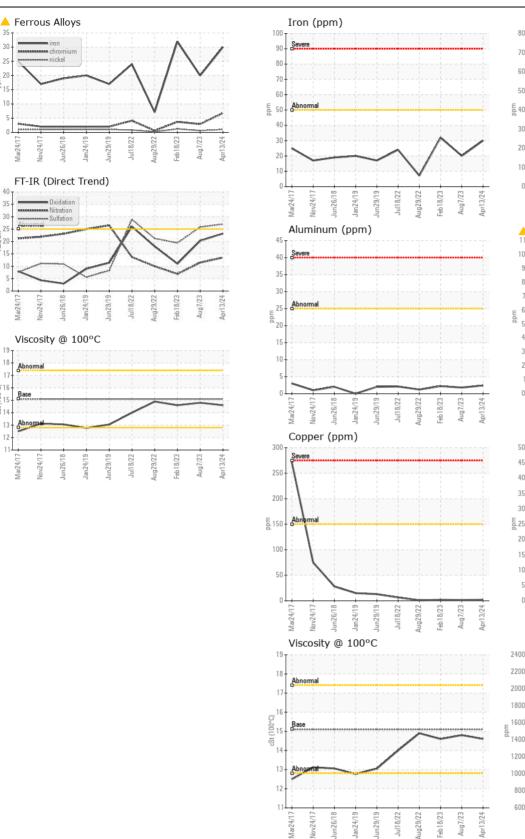
CONTAMINATION

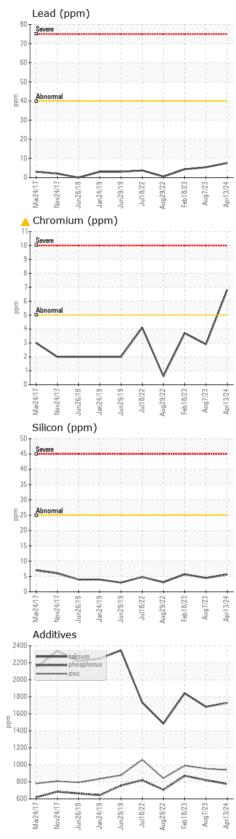
There is no indication of any contamination in the oil.

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

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0112556	GFL0090625	GFL0072856
Sample Date		Client Info		13 Apr 2024	07 Aug 2023	18 Feb 2023
Machine Age	hrs	Client Info		15235	14213	13349
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				ABNORMAL	NORMAL	MARGINAL
Iron	ppm	ASTM D5185(m)	>50	30	20	32
Chromium	ppm	ASTM D5185(m)	>5	<u> </u>	3	<u> </u>
Nickel	ppm	ASTM D5185(m)	>4	1	<1	1
Titanium	ppm	ASTM D5185(m)	>5	0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	2	2	2
Lead	ppm	ASTM D5185(m)	>40	8	5	4
Copper	ppm	ASTM D5185(m)	>150	2	1	2
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Silicon	ppm	ASTM D5185(m)	>25	6	4	6
Potassium	ppm	ASTM D5185(m)	>20	1	<1	1
Water	pp	WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	13.5	11.5	6.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.0	25.8	19.4
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Q - d'ana				40	40	40
Sodium	ppm	ASTM D5185(m)	50	13	13	16
Boron	ppm	ASTM D5185(m)	50	7	6	6
Barium	ppm	ASTM D5185(m)	5	<1 55	0	0
Molybdenum	ppm	ASTM D5185(m)	50	55	56	58 1
Manganese	ppm	ASTM D5185(m) ASTM D5185(m)	0	1	<1	
Magnesium Calcium	ppm	ASTM D5185(m) ASTM D5185(m)	560 1510	602 1720	637 1683	649 1842
Calcium	ppm	ASTM D5185(m) ASTM D5185(m)	1510	1729		
			780	775	820	871
Phosphorus	ppm	. ,	970	0/0	055	000
Phosphorus Zinc	ppm	ASTM D5185(m)	870	940	955	990
Phosphorus Zinc Sulfur	ppm ppm	ASTM D5185(m) ASTM D5185(m)	2040	1966	2027	2109
Phosphorus Zinc	ppm	ASTM D5185(m)				





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW CALA Sample No. Received 8409 -15th Street NW : GFL0112556 : 26 Apr 2024 Lab Number : 02631563 Tested Edmonton, AB : 26 Apr 2024 ISO 17025:2017 Accredited Laboratory : 26 Apr 2024 - Kevin Marson CA T6P 0B8 Unique Number : 5772716 Diagnosed Test Package : MOB 1 (Additional Tests: Visual) Contact: Tim Greig To discuss this sample report, contact Customer Service at 1-800-268-2131. tgreig@gflenv.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (780)231-0521 Validity of results and interpretation are based on the sample and information as supplied. F:

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25

е ²⁰

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30

2

Abs/cm

10

19.

> 13 Abno

12

Mar24/1

B

Mar24/17

1/17/17

Mar24/17

Submitted By: Brian Gagne Page 2 of 2