

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id 801041 Component

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (25 LTR)

RECOMMENDATION	

Resample at the next service interval to monitor.

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All component wear rates are normal.

CONTAMINATION

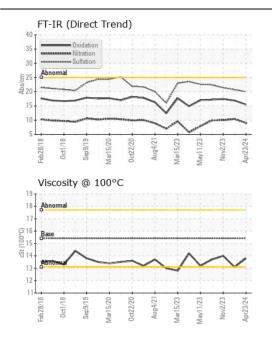
Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

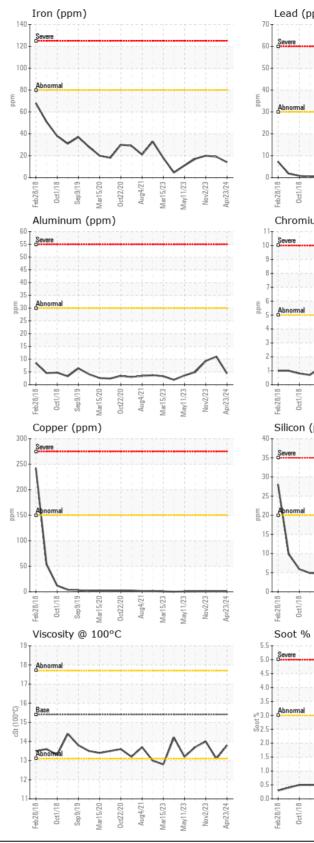
FLUID CONDITION

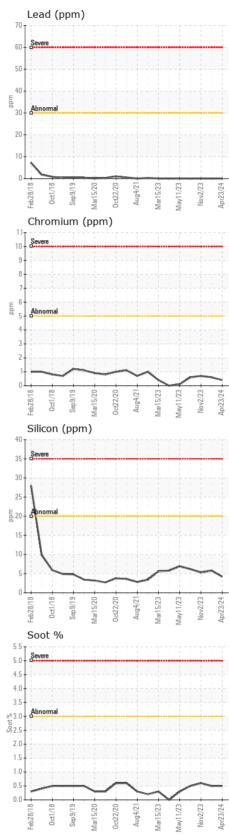
The condition of the oil is acceptable for the time in service.

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Т	est	UOM	Method	Limit/Abn	Current	History1	History2
S	Sample Number		Client Info		GFL0107133	GFL0111742	WC0875104
S	Sample Date		Client Info		23 Apr 2024	12 Feb 2024	02 Nov 2023
Ν	Aachine Age	hrs	Client Info		14777	14366	0
C	Dil Age	hrs	Client Info		600	600	0
F	Filter Age	hrs	Client Info		600	0	0
C	Dil Changed		Client Info		Changed	Changed	Changed
F	Filter Changed		Client Info		Changed	Changed	Changed
S	Sample Status				NORMAL	NORMAL	NORMAL
 h	ron	ppm	ASTM D5185(m)	>80	14	19	20
	Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
	Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
	Titanium	ppm	ASTM D5185(m)	~_	0	0	0
	Silver	ppm	ASTM D5185(m)	>3	0	0	<1
	Aluminum		ASTM D5185(m)	>30	4	11	9
	ead	ppm ppm	ASTM D5185(m)	>30	4	0	9
	Copper		ASTM D5185(m)	>150	<1	1	<1
	-in	ppm	ASTM D5185(m)	>5	0	0	0
	/anadium	ppm	ASTM D5185(m)	>0	0	0	0
		ppm	ASTM D3103(III)				0
S	Silicon	ppm	ASTM D5185(m)	>20	4	6	5
F	Potassium	ppm	ASTM D5185(m)	>20	5	17	14
F	uel		WC Method	>5	<1.0	<1.0	<1.0
٧	Vater		WC Method	>0.2	NEG	NEG	NEG
C	Glycol		WC Method		NEG	NEG	NEG
S	Soot %	%	ASTM D7844*	>3	0.5	0.5	0.6
٨	Nitration	Abs/cm	ASTM D7624*	>20	9.0	10.4	10.0
S	Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	20.7	21.4
E	mulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
S	Sodium	ppm	ASTM D5185(m)		8	8	9
E	Boron	ppm	ASTM D5185(m)	0	6	9	7
E	Barium	ppm	ASTM D5185(m)	0	0	0	<1
Ν	Nolybdenum	ppm	ASTM D5185(m)	60	58	60	62
Ν	<i>A</i> anganese	ppm	ASTM D5185(m)	0	<1	0	0
Ν	<i>l</i> agnesium	ppm	ASTM D5185(m)	1010	932	913	935
C	Calcium	ppm	ASTM D5185(m)	1070	1029	1054	1069
F	Phosphorus	ppm	ASTM D5185(m)	1150	963	974	989
Z	Zinc	ppm	ASTM D5185(m)	1270	1160	1161	1220
S	Sulfur	ppm	ASTM D5185(m)	2060	2384	2592	2380
C	Dxidation	Abs/.1mm	ASTM D7414*	>25	15.5	16.9	17.4
V	/isc @ 100°C	cSt	ASTM D7279(m)	15.4	13.8	13.1	14.0
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Submitted By: Scott Ewan









Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : GFL0107133 Received : 25 Apr 2024 Lab Number : 02631318 Tested : 25 Apr 2024 ISO 17025:2017 Accredited : 25 Apr 2024 - Wes Davis Unique Number : 5772471 Diagnosed Laboratory Test Package : MOB 1 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.

GFL Environmental - 217 - Aurora 14131 BAYVIEW AVE, AURORA YARD AURORA, ON s CA L4G 0K6 Contact: Mike Havens MHavens@gflenv.com T: F: (905)713-2445

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