

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 831003

Component Natural Gas Engine Fluid

PETRO CANADA DURON HP 15W40 (--- LTR)

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.

rr)		Mar2021	Mar2021 Sep2021	Jul2022 Aug2023	Nov2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0097624	GFL0090602	GFL0053100
Sample Date		Client Info		20 Nov 2023	25 Aug 2023	18 Jul 2022
Machine Age	hrs	Client Info		0	6420	4373
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	21	31	20
Chromium	ppm	ASTM D5185(m)	>4	<1	2	2
Nickel	ppm	ASTM D5185(m)	>2	<1	1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>9	2	13	25
Lead	ppm	ASTM D5185(m)	>30	1	3	2
Copper	ppm	ASTM D5185(m)	>35	2	2	1
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<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)	0	18	11	8
Barium	ppm	ASTM D5185(m)	0	12	0	0
Molybdenum	ppm	ASTM D5185(m)	60	50	63	62
Manganese	ppm	ASTM D5185(m)	0	3	1	1
Magnesium	ppm	ASTM D5185(m)	1010	544	687	795
Calcium	ppm	ASTM D5185(m)	1070	1549	1842	1695
Phosphorus	ppm	ASTM D5185(m)	1150	726	930	946
Zinc	ppm	ASTM D5185(m)	1270	869	1072	1182
Sulfur	ppm	ASTM D5185(m)	2060	1974	2140	2418
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>+100	18	5	5
Sodium	ppm	ASTM D5185(m)		3	10	8
Potassium	ppm	ASTM D5185(m)	>20	<1	22	39
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	9.7	13.3	10.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.4	29.9	23.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.1	24.2	20.1

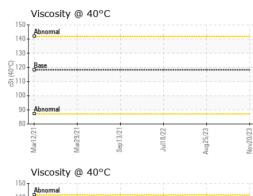


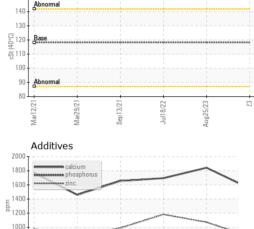
800

600

Mar12/21

OIL ANALYSIS REPORT





Sen13/21

ul18/22

Aug25/23

(100°C)

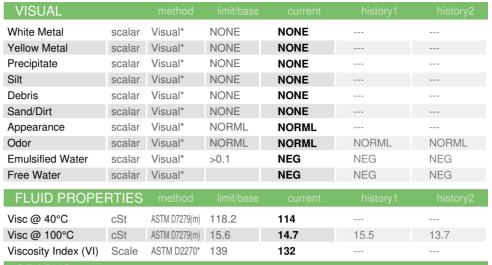
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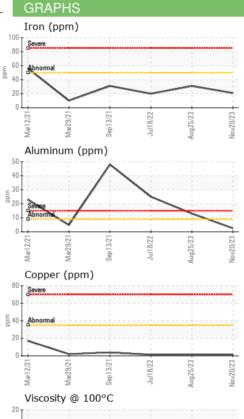
12

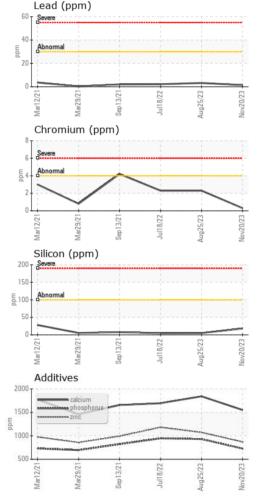
Mar12/21

Mar29/21

Aar29/71







: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW Laboratory CALA Sample No. Received : 21 Nov 2023 : GFL0097624 8409 -15th Street NW Lab Number : 02597797 Diagnosed : 22 Nov 2023 Edmonton, AB ISO 17025:2017 Accredited CA T6P 0B8 Unique Number : 5682877 Diagnostician : Kevin Marson Laboratory Test Package : MOB 1 (Additional Tests: KV40, VI, Visual) Contact: Tim Greig To discuss this sample report, contact Customer Service at 1-800-268-2131. tgreig@gflenv.com T: (780)231-0521 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:

Sep13/21

Jul18/22

Nov20/23

Aug25/23