

OIL ANALYSIS REPORT

Samp





Machine Id
8134
Component
Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

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.

Wear

Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated.

Contamination

There is no indication of any contamination in the oil

Fluid Condition

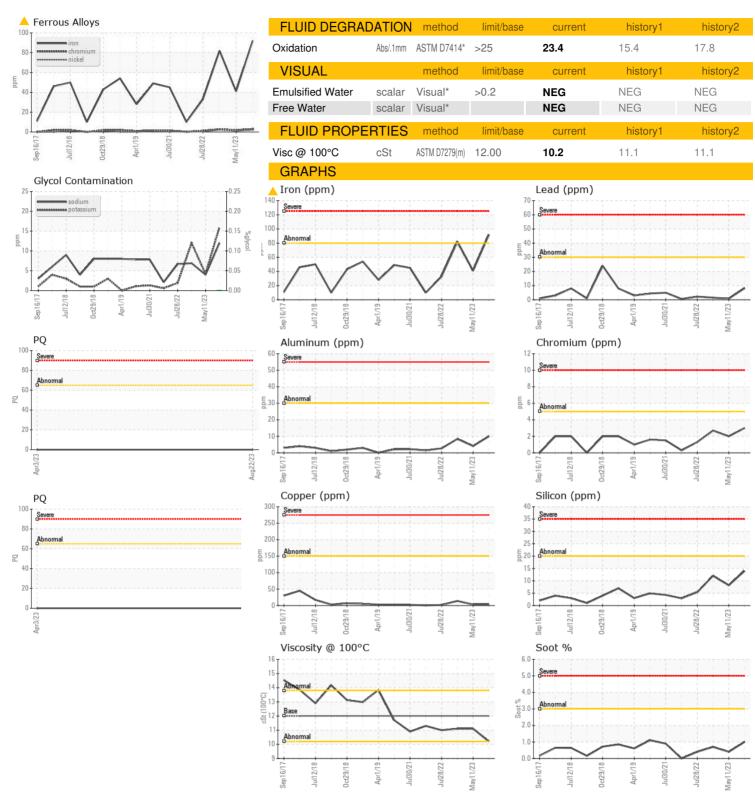
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090620	GFL0077987	GFL007796
Sample Date		Client Info		22 Aug 2023	11 May 2023	03 Apr 2023
Machine Age	hrs	Client Info		112688	10781	106122
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METAL	.S	method	limit/base	current	history1	history2
PQ		ASTM D8184*	>65	0		0
ron	ppm	ASTM D5185(m)	>80	4 92	41	▲ 82
Chromium	ppm	ASTM D5185(m)	>5	3	2	3
Nickel	ppm	ASTM D5185(m)	>2	2	1	<u>^</u> 2
Titanium	ppm	ASTM D5185(m)		<1	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>30	10	4	8
Lead	ppm	ASTM D5185(m)	>30	8	<1	2
Copper	ppm	ASTM D5185(m)	>150	3	3	14
Γin	ppm	ASTM D5185(m)	>5	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	<1
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)	2	2	2	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	56	58	59
Manganese	ppm	ASTM D5185(m)	0	<1	<1	1
Magnesium	ppm	ASTM D5185(m)	950	897	937	954
Calcium	ppm	ASTM D5185(m)	1050	964	1057	1082
Phosphorus	ppm	ASTM D5185(m)	995	970	1047	1061
Zinc	ppm	ASTM D5185(m)	1180	1096	1136	1179
Sulfur	ppm	ASTM D5185(m)	2600	2316	2570	2508
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	14	8	12
Sodium	ppm	ASTM D5185(m)		12	4	7
Potassium	ppm	ASTM D5185(m)	>20	16	4	12
Glycol	%	ASTM D7922*		0.0	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1	0.4	0.7
Nitration	Abs/cm	ASTM D7624*	>20	11.1	7.0	10.7

Submitted By: Brian Gagne



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CALA ISO 17025:2017 Accredited

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

: GFL0090620 : 02579567

: 5632627

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW Received

: 31 Aug 2023 : 01 Sep 2023

Diagnosed Diagnostician : Kevin Marson

Test Package : MOB 1 (Additional Tests: Glycol, PQ) 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.

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