

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION ABNORMAL



Machine Id 426013 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

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.

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All component wear rates are normal.

CONTAMINATION

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

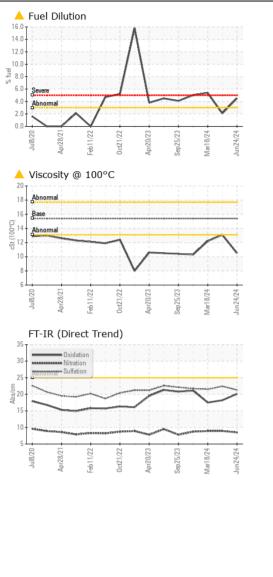
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

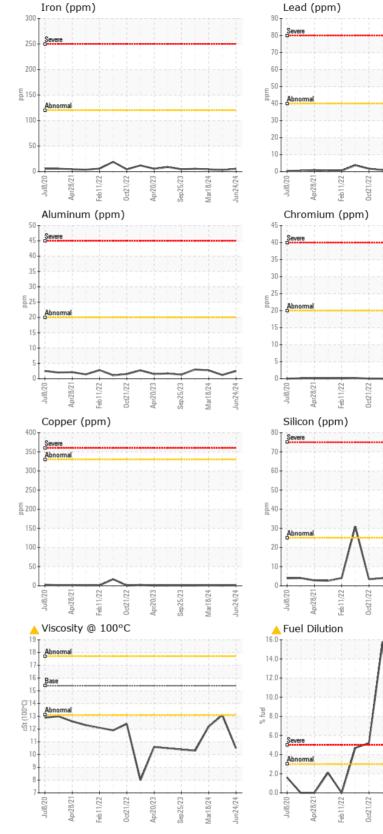
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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0113195	GFL0113216	GFL0102901
Sample Date		Client Info		24 Jun 2024	30 Apr 2024	18 Mar 2024
Machine Age	hrs	Client Info		15968	17089	0
Oil Age	hrs	Client Info		0	0	18310
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	SEVERE
Iron	ppm	ASTM D5185(m)	>120	6	3	4
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	1	3
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	1	<1	1
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185(m)	>25	5	1	3
Potassium	ppm	ASTM D5185(m)	>20	2	5	5
Fuel	%	ASTM D7593*	>3.0	4 .5	2.1	5 .4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>4	0.1	0	0
Nitration	Abs/cm	ASTM D7624*	>20	8.5	8.9	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.3	22.4	21.5
Silt	scalar	Visual*	NONE	NONE	NONE	
Debris	scalar	Visual*	NONE	VLITE	NONE	
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Appearance	scalar	Visual*	NORML	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	nnm	ASTM D5185(m)		3	3	З
Boron	ppm	ASTM D5185(m)	0	34	116	113
Barium	ppm ppm	ASTM D5185(m)	0	0 0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	35	2	4
Manganese	ppm	ASTM D5185(m)	0	35 <1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	412	35	54
Calcium	ppm	ASTM D5185(m)	1070	1569	2116	2066
Phosphorus	ppm	ASTM D5185(m)	1150	698	936	911
Zinc	ppm	ASTM D5185(m)	1270	822	1103	1052
Sulfur	ppm	ASTM D5185(m)	2060	1988	2806	2881
Oxidation	Abs/.1mm	ASTM D3103(III)	>25	20.1	18.2	17.5
			/= /	20.1	10.2	11.0

Visc @ 100°C cSt ASTM D7279(m) 15.4

13.1 🔺 12.2

10.5





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Sen25/23

Mar18/24

Jun24/24

in74/74

lar18/74

ar18/74

24/21

ep 25/23

Dr.20/7

kpr20/23

Apr20/23 ten 25/23



Sample No. Received : 27 Jun 2024 : GFL0113195 : 02644326 Lab Number Tested : 28 Jun 2024 ISO 17025:2017 Accredited Unique Number : 5801865 : 28 Jun 2024 - Kevin Marson Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, Visual) 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.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

CALA

Laboratory

Submitted By: Dave Varga Page 2 of 2