

OIL ANALYSIS REPORT

Sample Rating Trend



FUEL

Machine Id **9973** 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

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.

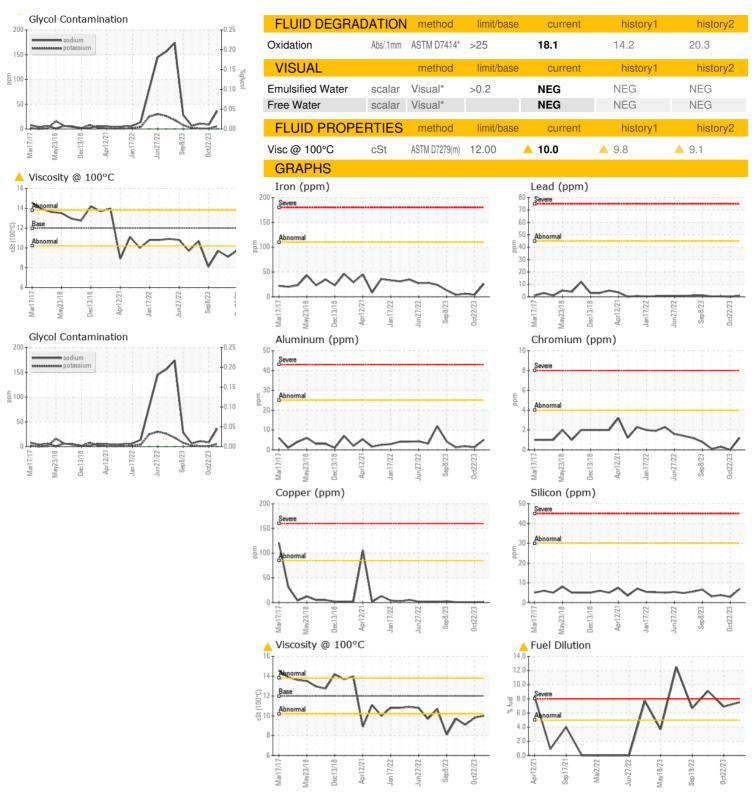
Fluid Condition

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

GAL)		lar2017 May2	018 Dec2018 Apr2021	Jan2022 Jun2022 Sep2023	0ct2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102644	GFL0093885	GFL0093890
Sample Date		Client Info		07 Jan 2024	22 Oct 2023	04 Oct 2023
Machine Age	hrs	Client Info		28678	0	28141
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	SEVERE
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>110	26	4	6
Chromium	ppm	ASTM D5185(m)	>4	1	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	5	1	2
Lead	ppm	ASTM D5185(m)	>45	<1	0	<1
Copper	ppm	ASTM D5185(m)	>85	1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
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)	2	5	7	2
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	50	56	56	52
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	950	853	881	821
Calcium	ppm	ASTM D5185(m)	1050	965	979	897
Phosphorus	ppm	ASTM D5185(m)	995	910	937	883
Zinc	ppm	ASTM D5185(m)	1180	1061	1088	1020
Sulfur	ppm	ASTM D5185(m)	2600	2437	2422	2229
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	7	3	4
Sodium	ppm	ASTM D5185(m)		36	8	11
Potassium	ppm	ASTM D5185(m)	>20	6	<1	<1
Fuel	%	ASTM D7593*	>5	^ 7.5	▲ 6.9	9.1
Glycol	%	ASTM D7922*		0.0	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.6	0.1	0.2
Nitration	Abs/cm	ASTM D7624*	>20	10.5	5.8	7.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.0	18.4	21.6



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CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW : GFL0102644 : 02610162 : 5711248

Recieved : 22 Jan 2024 Diagnosed : 23 Jan 2024 Diagnostician : Wes Davis

Test Package : MOB 1 (Additional Tests: Glycol, PercentFuel) 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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