

OIL ANALYSIS REPORT

Machine Id **811057** Component

Diesel Engine

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

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

Light fuel dilution occurring.

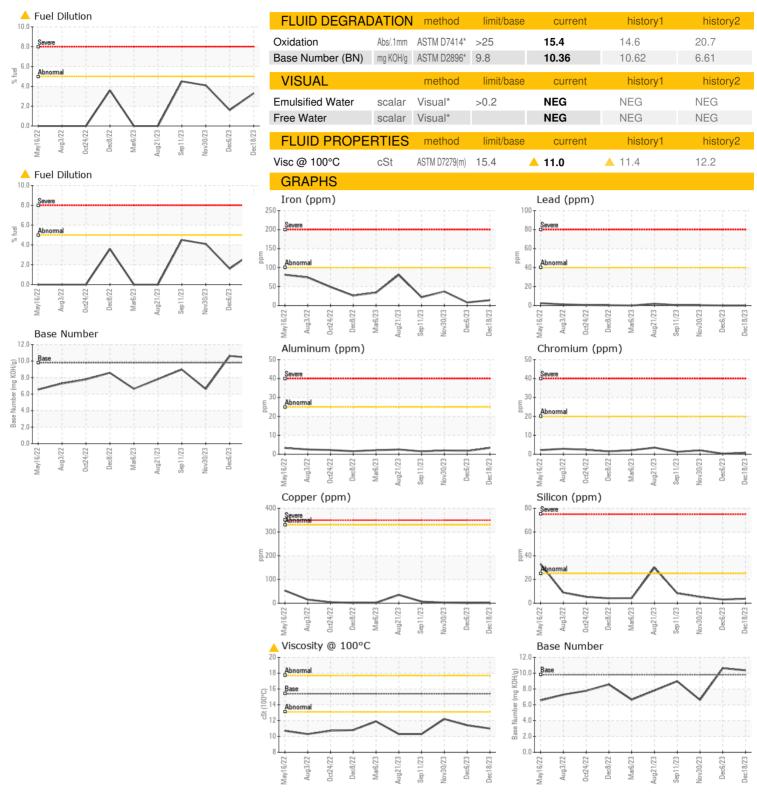
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

May2022 Aug2022 Oc2022 Oc2022 Mar2023 Aug2023 Say2023 Nov2023 Occ2023 Occ2023 Occ2023						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0099596	GFL0099584	GFL0099576
Sample Date		Client Info		18 Dec 2023	06 Dec 2023	30 Nov 2023
Machine Age	hrs	Client Info		731	66308	65621
Oil Age	hrs	Client Info		111	0	0
Oil Changed		Client Info		N/A	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	MARGINAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	14	8	37
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	2
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	3	2	2
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	1	<1	2
Tin	ppm	ASTM D5185(m)	>15	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)	0	2	2	2
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	60	58	59	55
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	943	950	870
Calcium	ppm	ASTM D5185(m)	1070	1031	1012	955
Phosphorus	ppm	ASTM D5185(m)	1150	998	984	897
Zinc	ppm	ASTM D5185(m)	1270	1149	1168	1103
Sulfur	ppm	ASTM D5185(m)	2060	2648	2570	2259
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	3	5
Sodium	ppm	ASTM D5185(m)		1	1	2
Potassium	ppm	ASTM D5185(m)	>20	2	0	0
Fuel	%	ASTM D7593*	>5	△ 3.3	1.6	<u> </u>
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.1	0	0.4
Nitration	Abs/cm	ASTM D7624*	>20	6.5	5.5	10.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.0	18.5	21.8



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CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number Unique Number

: 02605730

: 5698815

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County : GFL0099596

Recieved Diagnosed

: 02 Jan 2024 : 04 Jan 2024

Diagnostician : Wes Davis Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

220 Carmek Blvd Rocky View County, AB **CA T1X 1X1** Contact: GFL Calgary

calgarymaintenance@gflenv.com

T: F: (403)369-6163

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.