

OIL ANALYSIS REPORT

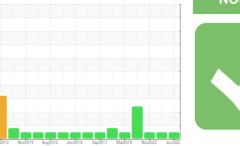
Sample Rating Trend

NORMAL



Machine Id **7939** Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (20 LTR)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

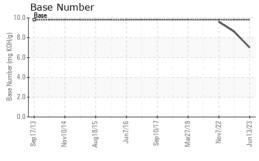
Fluid Condition

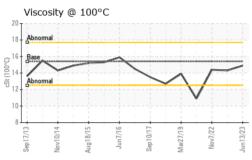
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

14 0111 10 10 10	_0,	3ep2013 No	v2014 Aug2015 Jun20	16 Sep2017 Mar2019 Nov20	22 Jun202:	
SAMPLE INFOR	RMATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0084560	GFL0071458	GFL0058698
Sample Date		Client Info		13 Jun 2023	03 Jan 2023	07 Nov 2022
Machine Age	hrs	Client Info		700	25243	15113
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	0.8
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS method limit/base current history 1 history						
Iron	ppm	ASTM D5185m	>80	13	16	4
Chromium	ppm	ASTM D5185m	>5	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	6	3	2
Lead	ppm	ASTM D5185m	>30	3	<1	0
Copper	ppm	ASTM D5185m	>150	2	<1	0
Tin	ppm	ASTM D5185m	>5	2	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Beryllium	ppm	ASTM D5185m				
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	33	0	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	54	60	58
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m	1010	602	942	946
Calcium	ppm	ASTM D5185m	1070	1784	1110	1066
Phosphorus	ppm	ASTM D5185m	1150	792	987	1004
Zinc	ppm	ASTM D5185m	1270	1038	1262	1249
Sulfur	ppm	ASTM D5185m	2060	2849	3367	3521
Lithium	ppm	ASTM D5185m				
CONTAMINA	NTS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>20	5	4	3
Sodium	ppm	ASTM D5185m		6	5	2
Potassium	ppm	ASTM D5185m	>20	2	7	2
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.1	0.7	0.2
Nitration	Abs/cm	*ASTM D7624		8.6	9.4	5.4
Sulfation	Abs/.1mm	*ASTM D7024		20.3	19.9	17.6
Guilation	Aus/. IIIIIII	A011VI D1410	<i>></i> 00	20.3	10.0	17.0



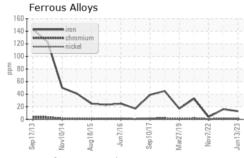
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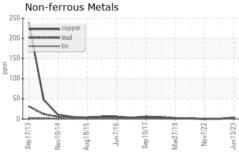


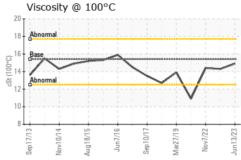


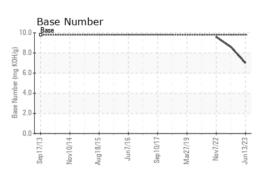
FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.8	18.0 7.0	16.7 8.6	13.3 9.6
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	14.9	14.3	14.4

GRAPHS













Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number** Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0084560

: 05885459 : 10535942 Received : 28 Jun 2023 Diagnosed : 30 Jun 2023

Diagnostician : Don Baldridge

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

GFL Environmental - 918 - Hartland HC

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Contact: David McCall david.mccall@gflenv.com T: (262)369-3069

Submitted By: Rick Philip