

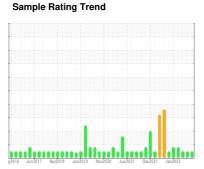
OIL ANALYSIS REPORT



(YA111289) GFL035

Diesel Engine

PETRO CANADA DURON SHP 15W40 (11 GAL)





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

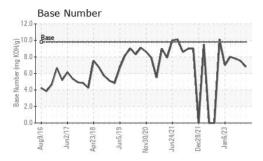
Fluid Condition

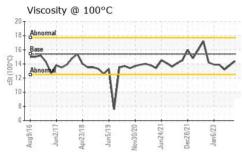
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0116455	GFL0085226	GFL0085238	
Sample Date		Client Info		22 Mar 2024	04 Jan 2024	19 Oct 2023	
Machine Age	mls	Client Info		368593	368593	368593	
Oil Age	mls	Client Info		600	600	0	
Oil Changed		Client Info		Not Changd	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>120	17	17	33	
Chromium		ASTM D5185m		<1	<1	1	
Nickel	ppm		>5	0	0	<1	
	ppm	ASTM D5185m					
Titanium	ppm	ASTM D5185m		0	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m		2	1	3	
Lead	ppm	ASTM D5185m	>40	0	<1	2	
Copper	ppm	ASTM D5185m	>330	2	4	6	
Tin	ppm	ASTM D5185m	>15	0	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	7	2	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	59	55	73	
Manganese	ppm	ASTM D5185m	0	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	937	846	1137	
Calcium	ppm	ASTM D5185m	1070	1129	1021	1216	
Phosphorus	ppm	ASTM D5185m	1150	1033	971	1260	
Zinc	ppm	ASTM D5185m	1270	1278	1144	1479	
Sulfur	ppm	ASTM D5185m	2060	3624	2765	4140	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	2	2	5	
Sodium	ppm	ASTM D5185m		1	<1	2	
Potassium	ppm	ASTM D5185m	>20	6	2	3	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	3.3	3.2	2.7	
Nitration	Abs/cm	*ASTM D7624	>20	9.0	8.8	9.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	23.0	22.4	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	13.5	14.6	
Base Number (BN)		ASTM D7414 ASTM D2896				7.8	
Dase Number (DN)	mg KOH/g	M3 1 W D2090	9.8	6.8	7.5	7.0	



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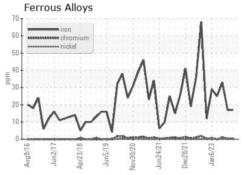


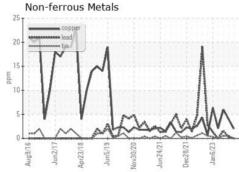


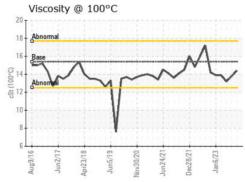
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

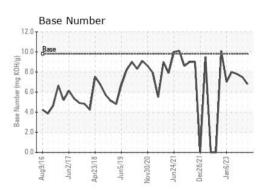
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	13.8	13.2

GRAPHS













Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: GFL0116455 Lab Number : 06137212 Unique Number: 10956677

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 03 Apr 2024 : 04 Apr 2024 Diagnosed : 04 Apr 2024 - Wes Davis

GFL Environmental - 035 - Greensboro

1236 Elon Place High Point, NC US 27263

Contact: JORGE COSTA jorge.costa@gflenv.com T: (336)668-3712

* - 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)