

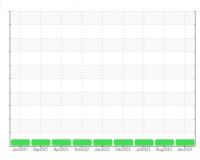
OIL ANALYSIS REPORT

(P8618D) {UNASSIGNED} 910087

Component

Diesel Engine

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



Sample Rating Trend



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

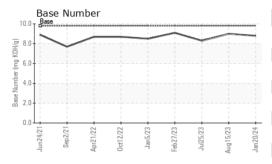
Fluid Condition

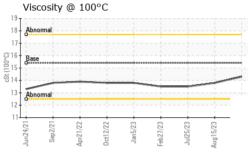
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Jun2021 Sep2021 Apr2022 Oct2022 Jun2023 Feb2023 Ju2023 Aug2023 Jun2024								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0078644	GFL0082070	GFL0082062		
Sample Date		Client Info		20 Jan 2024	15 Aug 2023	25 Jul 2023		
Machine Age	hrs	Client Info		16914	7942	7821		
Oil Age	hrs	Client Info		600	600	600		
Oil Changed		Client Info		Changed	Changed	Changed		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINATI	ON	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 METALS	3	method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>90	26	8	38		
Chromium	ppm	ASTM D5185m	>20	2	1	3		
Nickel	ppm	ASTM D5185m	>2	0	0	0		
Titanium	ppm	ASTM D5185m	>2	0	<1	0		
Silver	ppm	ASTM D5185m	>2	0	<1	0		
Aluminum	ppm	ASTM D5185m	>20	10	2	7		
Lead	ppm	ASTM D5185m	>40	0	0	0		
Copper	ppm	ASTM D5185m	>330	<1	<1	0		
Tin	ppm	ASTM D5185m	>15	<1	<1	0		
Vanadium	ppm	ASTM D5185m		0	<1	0		
Cadmium	ppm	ASTM D5185m		0	<1	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	0	3	12	13		
Barium	ppm	ASTM D5185m	0	0	0	0		
Molybdenum	ppm	ASTM D5185m	60	62	61	68		
Manganese	ppm	ASTM D5185m	0	<1	<1	<1		
Magnesium	ppm	ASTM D5185m	1010	1011	945	954		
Calcium	ppm	ASTM D5185m	1070	1113	1084	1172		
Phosphorus	ppm	ASTM D5185m	1150	1047	989	1056		
Zinc	ppm	ASTM D5185m	1270	1307	1202	1274		
Sulfur	ppm	ASTM D5185m	2060	3234	3603	3730		
CONTAMINANTS method limit/base current history1 history2								
Silicon	ppm	ASTM D5185m	>25	4	2	3		
Sodium	ppm	ASTM D5185m		3	3	4		
Potassium	ppm	ASTM D5185m	>20	21	4	12		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>6	1.7	0.4	1.1		
Nitration	Abs/cm	*ASTM D7624	>20	9.1	6.1	8.6		
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	18.3	19.9		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	13.4	14.0		
Base Number (BN)	mg KOH/g	ASTM D2896		8.8	9.0	8.3		
_ 5.50 · 10501 (D14)	901119		5.0	0.0	0.0	0.0		



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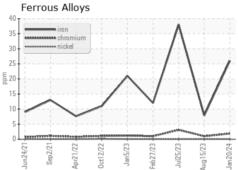


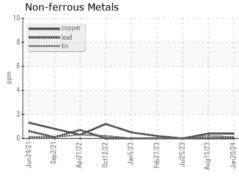


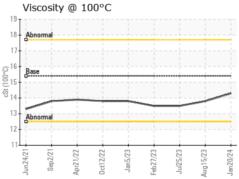
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

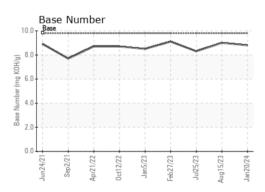
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	13.8	13.5

GRAPHS













Certificate L2367

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

: GFL0078644 : 06072108 : 10848785

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

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

: 26 Jan 2024 Diagnostician : Wes Davis

: 29 Jan 2024

GFL Environmental - 152 - Jacksonville 7580 PHILIPS HWY Jacksonville, FL

US 32256 Contact: Chris Smith chris.smith@gflenv.com T: (904)252-0013

* - 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)