

OIL ANALYSIS REPORT

{UNASSIGNED} 792M

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (36 QTS)

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

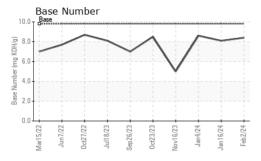
Fluid Condition

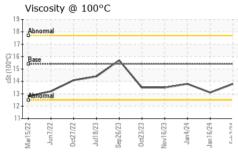
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

				023 Oct2023 Nov2023 Jan2024 Jan2			
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0110081	GFL0109995	GFL0104186	
Sample Date		Client Info		02 Feb 2024	16 Jan 2024	04 Jan 2024	
Machine Age	hrs	Client Info		17185	17164	17083	
Oil Age	hrs	Client Info		600	600	0	
Oil Changed		Client Info		Changed	Changed	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATION	ON	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS	5	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	7	37	5	
Chromium	ppm	ASTM D5185m	>20	<1	1	0	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m		0	<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	3	<1	
Lead	ppm	ASTM D5185m	>40	0	3	0	
Copper	ppm	ASTM D5185m	>330	0	1	<1	
Tin	ppm	ASTM D5185m	>15	0	0	0	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	4	<1	0	
Barium	ppm		0	5	0	0	
Molybdenum	ppm	ASTM D5185m	60	55	53	53	
Manganese	ppm	ASTM D5185m	0	0	<1	0	
Magnesium	ppm	ASTM D5185m	1010	858	865	932	
Calcium	ppm	ASTM D5185m	1070	909	1001	1023	
Phosphorus	ppm	ASTM D5185m	1150	845	820	939	
Zinc	ppm	ASTM D5185m	1270	1145	1069	1260	
Sulfur	ppm	ASTM D5185m	2060	2754	2514	2839	
CONTAMINANT		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m		4	8	2	
Sodium	ppm	ASTM D5185m	- 20	0	3	4	
Potassium	ppm	ASTM D5185m	>20	2	<1	2	
INFRA-RED	P	method	limit/base	current	history1	history2	
	%			0	1.1	,	
Soot % Nitration		*ASTM D7844	>3			0.3 8.2	
	Abs/cm	*ASTM D7624	>20	4.4	13.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	23.5	19.0	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	24.8	16.1	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	8.1	8.6	



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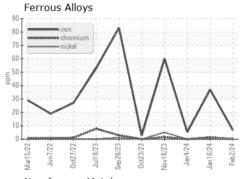


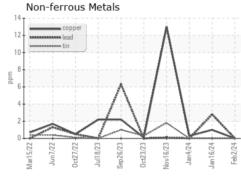


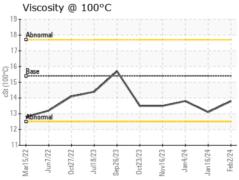
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

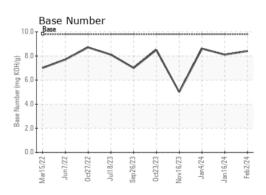
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.1	13.8

GRAPHS













Certificate L2367

Laboratory

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

: GFL0110081 : 06081143 : 10863234

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06 Feb 2024 Recieved : 06 Feb 2024

Diagnosed Diagnostician : Wes Davis GFL Environmental - 410 - Michigan West

39000 Van Born Rd Wayne, MI US 48184

Contact: Belal Dgheish bdgheish@gflenv.com T: (734)714-2340

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)