

OIL ANALYSIS REPORT



(DQR837) **MACK 2653** Diesel Engine

PETRO CANADA DURON SHP 15W40 (7 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

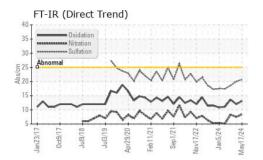
Fluid Condition

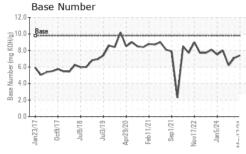
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

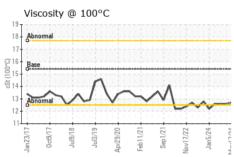
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116758	GFL0116811	GFL0109019
Sample Date		Client Info		17 May 2024	09 May 2024	06 Mar 2024
Machine Age	hrs	Client Info		36797	36747	36425
Oil Age	hrs	Client Info		3059	3009	2687
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	NC	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		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	23	21	10
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
	ppm	ASTM D5185m	>2	0	0	0
	ppm	ASTM D5185m	>2	0	0	0
	ppm	ASTM D5185m	>20	3	2	0
	ppm	ASTM D5185m	>40	1	<1	0
	ppm		>330	0	4	<1
	ppm	ASTM D5185m	>15	<1	<1	0
	ppm	ASTM D5185m	710	0	0	0
	ppm	ASTM D5185m		0	0	0
ADDITIVES	PPIII	method	limit/base	current	history1	history2
_	nnm	ASTM D5185m	0	11	10	6
	ppm		0	0	0	0
	ppm	ASTM D5185m	60	60	57	57
	ppm		0		1	0
	ppm			<1		
	ppm	ASTM D5185m	1010	792	788	702
	ppm	ASTM D5185m	1070	1068	1114	1079
	ppm	ASTM D5185m	1150	950	927	775
	ppm	ASTM D5185m	1270	1119	1120	980
	ppm	ASTM D5185m	2060	3202	3129	2314
CONTAMINANT		method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>25	5	5	3
	ppm	ASTM D5185m		1	2	2
Potassium	ppm	ASTM D5185m	>20	<1	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	2	2.2	0.6
Nitration	Abs/cm	*ASTM D7624	>20	8.4	7.5	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	20.0	18.6
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	12.0	13.6
	mg KOH/g	ASTM D2896	9.8	7.4	7.1	6.2
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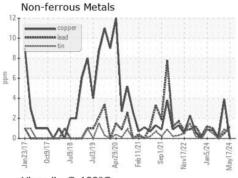


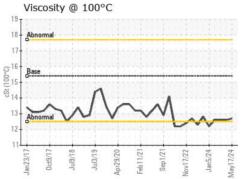
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

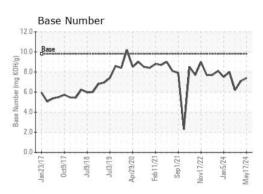
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.7	12.6	12.6

GRAPHS

Ferrous Alloys











Certificate 12367

Laboratory Sample No. Lab Number : 06188896

Unique Number : 11045648 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0116758 **Tested**

Received : 23 May 2024 : 24 May 2024

Diagnosed : 24 May 2024 - Wes Davis

GFL Environmental - 009 - Fairburn

6905 Roosevelt Hwy Fairburn, GA

US 30213 Contact: Eric Jones erjones@gflenv.com

T: (678)630-9927

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)