

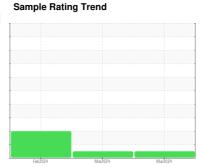
OIL ANALYSIS REPORT



{UNASSIGNED} 814032

Component **Diesel Engine**

PETRO CANADA DURON HP 15W40 (--- 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

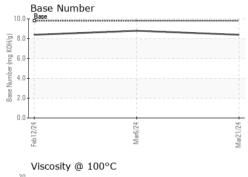
Fluid Condition

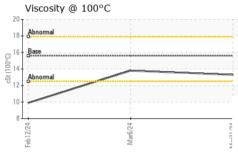
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	<u> </u>	Feb2024 Mw2024 Mw2024					
SAMPLE INFO	RMATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0097858	GFL0103579	GFL0097802	
Sample Date		Client Info		21 Mar 2024	06 Mar 2024	12 Feb 2024	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		520	496	612	
Oil Changed		Client Info		N/A	N/A	Changed	
Sample Status				NORMAL	NORMAL	ABNORMAL	
CONTAMINA	ATION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	0.4	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR META	ALS	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>120	10	7	29	
Chromium	ppm	ASTM D5185m	>20	0	0	1	
Nickel	ppm	ASTM D5185m	>5	1	<1	5	
Titanium	ppm	ASTM D5185m		0	0	<1	
Silver	ppm	ASTM D5185m	>2	<1	0	1	
Aluminum	ppm	ASTM D5185m	>20	2	<1	4	
Lead		ASTM D5185m	>40	0	<1	<1	
	ppm		>330	53	37	226	
Copper	ppm						
Tin	ppm	ASTM D5185m	>15	0	0	3	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		16	21	309	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m		58	62	119	
Manganese	ppm	ASTM D5185m		<1	<1	4	
Magnesium	ppm	ASTM D5185m		937	993	683	
Calcium	ppm	ASTM D5185m		1053	1120	1379	
Phosphorus	ppm	ASTM D5185m		894	1069	740	
Zinc	ppm	ASTM D5185m		1153	1260	829	
Sulfur	ppm	ASTM D5185m		3287	3771	2779	
CONTAMINA	ANTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	7	12	△ 69	
Sodium	ppm	ASTM D5185m		2	2	0	
Potassium	ppm	ASTM D5185m	>20	0	<1	7	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.2	0.1	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	6.1	5.3	8.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	18.5	24.9	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	14.6	21.8	
Base Number (BN		ASTM D2896		8.4	8.8	8.4	
Dago Halliber (DI	ing itority	7.0 TWI D2000	0.0	0.7	0.0	0.4	



OIL ANALYSIS REPORT

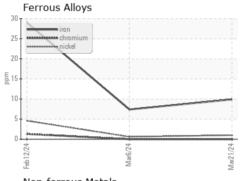


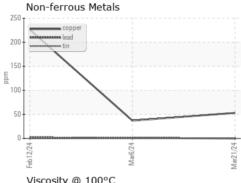


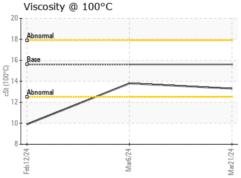
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

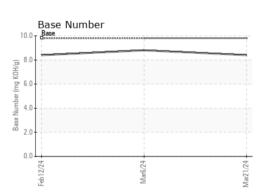
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.6	13.3	13.8	9.9

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06132673 Unique Number : 10952138 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0097858

Tested Diagnosed

Received : 28 Mar 2024 : 30 Mar 2024

: 30 Mar 2024 - Wes Davis

GFL Environmental - 958 - Tri County HC Morton

1090 W. Jefferson St. Morton, IL

US 61550 Contact: Bryan Link

blink@gflenv.com T:

* - 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)

F: