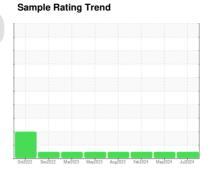


OIL ANALYSIS REPORT



Area [GFL152] 913004 Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 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

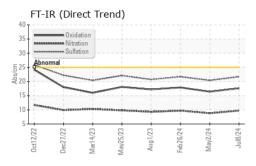
Fluid Condition

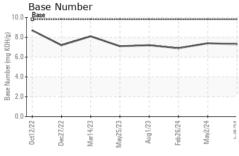
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

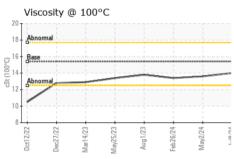
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106145	GFL0105941	GFL0106112
Sample Date		Client Info		08 Jul 2024	02 May 2024	26 Feb 2024
Machine Age	hrs	Client Info		5101	5101	4581
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	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	21	10	15
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	1	4
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead		ASTM D5185m	>40	0	<1	0
	ppm		>330	2	1	1
Copper	ppm					
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	4	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	62	65
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	894	895	1047
Calcium	ppm	ASTM D5185m	1070	1273	1066	1209
Phosphorus	ppm	ASTM D5185m	1150	1027	1022	1113
Zinc	ppm	ASTM D5185m	1270	1241	1201	1365
Sulfur	ppm	ASTM D5185m	2060	3252	3133	3167
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	6	6
Sodium	ppm	ASTM D5185m		7	1	4
Potassium	ppm	ASTM D5185m	>20	<1	3	3
INIEDA DED		method	limit/base	current	history1	history2
INFRA-RED						
INFRA-RED Soot %	%	*ASTM D7844	>4	0.8	0.7	0.8
Soot %			>4 >20			
	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415		0.8 9.7 21.7	0.7 8.8 20.4	0.8 9.7 21.7
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624	>20	9.7	8.8	9.7
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	9.7 21.7	8.8 20.4	9.7 21.7



OIL ANALYSIS REPORT



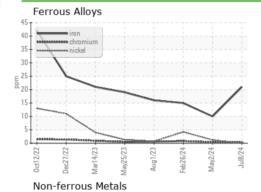


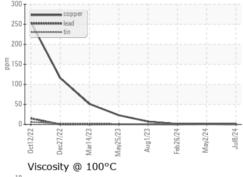


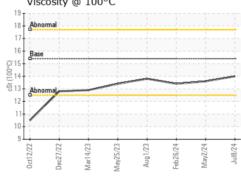
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

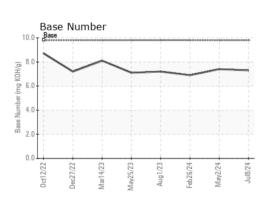
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.6	13.4

GRAPHS













Sample No.

: GFL0106145 Lab Number : 06234281 Unique Number : 11123115

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Jul 2024 **Tested** : 12 Jul 2024

Diagnosed : 12 Jul 2024 - Wes Davis

GFL Environmental - 152 - Jacksonville 7580 PHILIPS HWY

Jacksonville, FL US 32256 Contact: Chris Smith chris.smith@gflenv.com

T: (904)252-0013

Test Package : FLEET Certificate 12367 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)