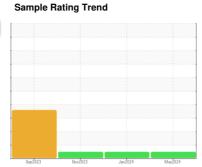


OIL ANALYSIS REPORT



GFL035 934049 Diesel Engine

PETRO CANADA DURON SHP 15W40 (42 QTS)





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

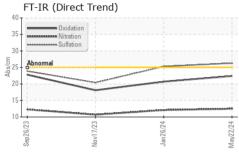
Fluid Condition

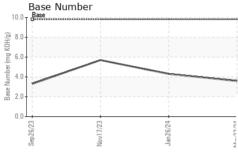
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

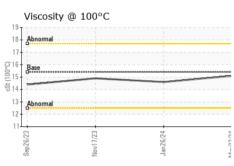
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116494	GFL0102337	GFL0102302
Sample Date		Client Info		22 May 2024	26 Jan 2024	17 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		600	600	300
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status		Onorte milo		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	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	21	25	18
Chromium	ppm	ASTM D5185m	>20	2	1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	9	8	5
Lead	ppm	ASTM D5185m	>40	3	2	<1
Copper	ppm	ASTM D5185m	>330	3	4	4
Tin	ppm	ASTM D5185m		1	2	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	13	12
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	61	58	54
Manganese	ppm	ASTM D5185m	0	1	3	2
Magnesium	ppm	ASTM D5185m	1010	674	632	567
Calcium	ppm	ASTM D5185m	1070	1930	1674	1562
Phosphorus	ppm	ASTM D5185m	1150	861	799	713
Zinc	ppm	ASTM D5185m	1270	1083	1026	950
Sulfur	ppm	ASTM D5185m	2060	3038	2392	2583
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	8	8
Sodium	ppm	ASTM D5185m		9	9	6
Potassium	ppm	ASTM D5185m	>20	12	11	8
		method	limit/base	current	history1	history2
INFRA-RED						
INFRA-RED Soot %	%	*ASTM D7844	>4	0	0	0
	% Abs/cm	*ASTM D7844 *ASTM D7624	>4 >20	0 12.5	0 12.1	0 10.7
Soot %						
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624	>20	12.5	12.1	10.7
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	12.5 26.3	12.1 25.3	10.7 20.4



OIL ANALYSIS REPORT



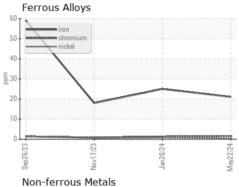


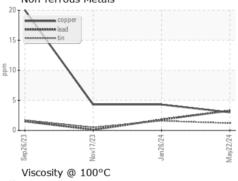


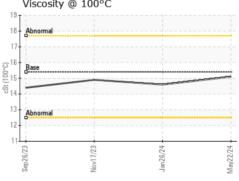
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

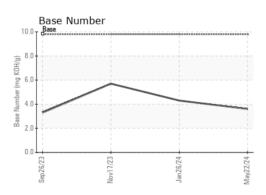
LLUID FUOF		memod			HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	15.4	15.1	14.6	14.9

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0116494 Lab Number : 06191454 Unique Number : 11048206 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 May 2024 **Tested**

: 29 May 2024 Diagnosed : 29 May 2024 - Angela Borella

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)

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Contact: JORGE COSTA jorge.costa@gflenv.com

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