

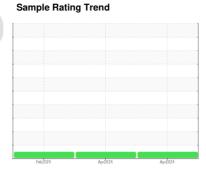
OIL ANALYSIS REPORT



(TB7755) 914036 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

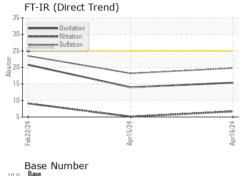
Fluid Condition

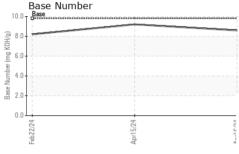
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

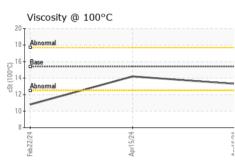
SAMPLE INFORM	ΛΔΤΙΩΝ	method	limit/base	current	history1	history2
Sample Number	ATION	Client Info	mmoasc	GFL0113050	GFL0113077	GFL0113033
Sample Date		Client Info		16 Apr 2024	15 Apr 2024	22 Feb 2024
Machine Age	hrs	Client Info		1104	1104	687
Oil Age	hrs	Client Info		599	600	0
Oil Changed	1113	Client Info		Changed	Changed	N/A
Sample Status		Oliciti IIIIo		NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
	ON					
Fuel		WC Method		<1.0	<1.0	0.3
Water			>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	17	7	51
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>5	3	<1	8
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	2	2	6
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	21	3	121
Tin	ppm	ASTM D5185m	>15	1	<1	2
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	19	7	163
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	73	59	110
Manganese	ppm	ASTM D5185m	0	<1	0	3
Magnesium	ppm	ASTM D5185m	1010	904	939	730
Calcium	ppm	ASTM D5185m	1070	1117	1067	1364
Phosphorus	ppm	ASTM D5185m	1150	954	1054	678
Zinc	ppm	ASTM D5185m	1270	1127	1201	835
Sulfur	ppm	ASTM D5185m	2060	2800	3303	2198
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm		>25	11	5	52
Sodium	ppm	ASTM D5185m		<1	2	4
Potassium	ppm	ASTM D5185m	>20	3	2	9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.2	0.7
Nitration	Abs/cm	*ASTM D7624	>20	6.7	5.1	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	18.2	23.5
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	14.0	20.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	9.2	8.2
(-)	0 - 0					



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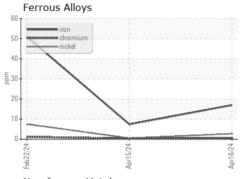


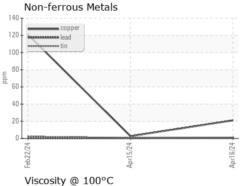


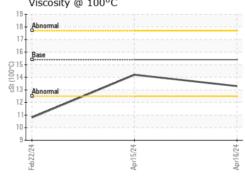
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

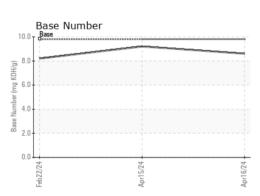
L LOID FUOL		memou			HISTOLAL	HISTOLA
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	14.2	10.8

GRAPHS













Certificate 12367

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06155175 Unique Number : 10990598

: GFL0113050 Test Package : FLEET

Received

Tested : 22 Apr 2024 Diagnosed : 22 Apr 2024 - Wes Davis

: 19 Apr 2024

300 Raemisch Road Waunakee, WI US 53597 Contact: Ben Briggs

GFL Environmental - 924 - Madison HC

ben.briggs@gflenv.com T: (608)770-9196

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)

Report Id: GFL924 [WUSCAR] 06155175 (Generated: 04/23/2024 02:55:29) Rev: 1