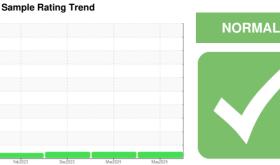


OIL ANALYSIS REPORT





(TB7549) 913038 Diesel Engine

PETRO CANADA DURON SHP 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

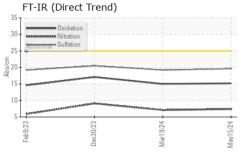
Fluid Condition

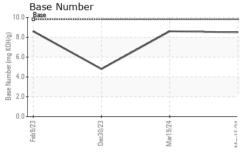
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

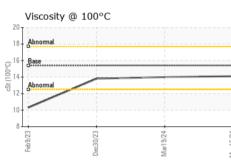
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number	ATION	Client Info	mmodase	GFL0069960	GFL0069956	GFL0069953
Sample Date		Client Info		15 May 2024	19 Mar 2024	30 Dec 2023
	hrs	Client Info		2674	3263	2737
-	hrs	Client Info		600	600	600
Oil Changed	1113	Client Info		Changed	Changed	Changed
Sample Status		Ciletit iiiio		NORMAL	NORMAL	NORMAL
	201		Para It /la a a a			
CONTAMINATIO	אכ	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
	ppm	ASTM D5185m	>120	8	12	22
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	2	1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	1	<1	2
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	0	3	9
Tin	ppm	ASTM D5185m	>15	<1	0	1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	0	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	65	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1000	1099	946
Calcium	ppm	ASTM D5185m	1070	1047	1240	1038
Phosphorus	ppm	ASTM D5185m	1150	1035	1136	910
Zinc	ppm	ASTM D5185m	1270	1277	1359	1252
Sulfur	ppm	ASTM D5185m	2060	3391	3625	2523
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	4
Sodium	ppm	ASTM D5185m		2	3	3
Potassium	ppm	ASTM D5185m	>20	0	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5	0.4	0.8
Nitration	Abs/cm	*ASTM D7624	>20	7.4	7.1	9.1
	Abs/.1mm	*ASTM D7415	>30	19.6	19.2	20.5
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	15.0	17.1
	mg KOH/g	ASTM D2896	9.8	8.5	8.6	4.8
			0.0	0.0	0.0	1.0



OIL ANALYSIS REPORT



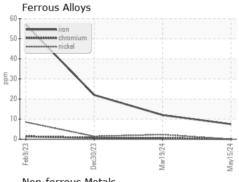


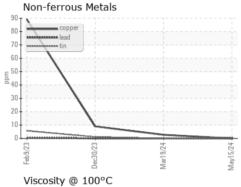


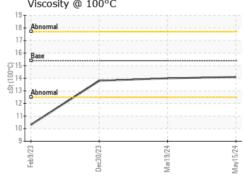
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

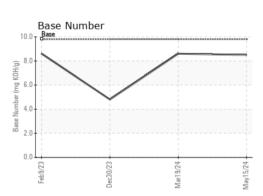
FLUID PROPI	EHILO	method			History i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.0	13.8

GRAPHS













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0069960 Lab Number : 06188950 Unique Number : 11045702

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

Tested : 24 May 2024 Diagnosed : 24 May 2024 - Wes Davis

Received

428 High St Chilton, WI US 53014 Contact: Keith Mueller keith.mueller@gflenv.com

GFL Environmental - 902 - Chilton HC

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)

: 23 May 2024

Contact/Location: See also GFL903 - Keith Mueller - GFL902

T: (920)374-1404