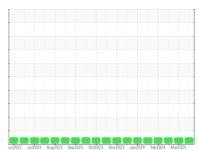


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 913051

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

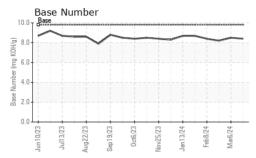
Fluid Condition

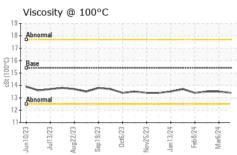
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

QTS)		un2023 Jul20	23 Aug2023 Sep2023 Oc	12023 Nov2023 Jan2024 Feb2024	Mar2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0068817	GFL0068900	GFL0068903
Sample Date		Client Info		22 Mar 2024	06 Mar 2024	01 Mar 2024
Machine Age	hrs	Client Info		3082	2963	2820
Oil Age	hrs	Client Info		119	866	723
Oil Changed		Client Info		Not Changd	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	>90	7	0	13
Chromium	ppm	ASTM D5185m	>20	2	<1	1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	2	5
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	<1	0	<1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	4	2
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m	60	58	55	56
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	870	949	943
Calcium	ppm	ASTM D5185m	1070	999	1016	1001
Phosphorus	ppm	ASTM D5185m	1150	992	996	981
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1270	1095	1221	1156
	ppm			2818	3040	3045
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	2	2
Sodium	ppm	ASTM D5185m	00	0	2	4
Potassium	ppm	ASTM D5185m		14	6	12
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.2	0.2	0.5
Nitration	Abs/cm	*ASTM D7624		5.5	5.2	6.4
Sulfation	Abs/.1mm	*ASTM D7415		17.4	17.5	18.2
FLUID DEGRAI	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	12.7	13.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	8.5	8.2



OIL ANALYSIS REPORT

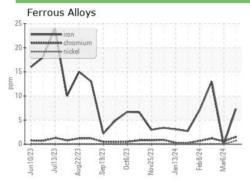


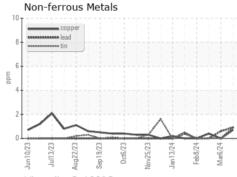


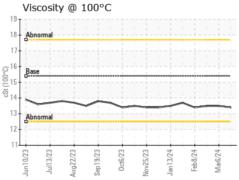
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

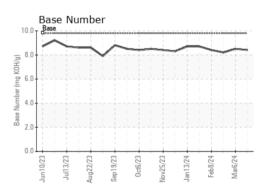
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.5	13.5

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number : 06130120

: GFL0068817 Unique Number : 10949585

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Mar 2024 **Tested**

: 27 Mar 2024 Diagnosed : 27 Mar 2024 - Wes Davis

GFL Environmental - 073 - Warner Robins - Transwaste

155 Story Road Warner Robins, GA

US 31093 Contact: JOSH MALONEY jmaloney@gflenv.com

Test Package : FLEET 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)

T:

F: