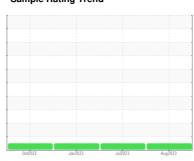


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 424076 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

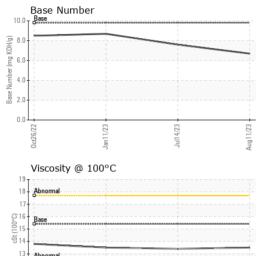
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(10)		0ct202	2 Jan 2023	Jul2023 A	1g2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0083044	GFL0083046	GFL0044612
Sample Date		Client Info		11 Aug 2023	14 Jul 2023	11 Jan 2023
Machine Age	hrs	Client Info		0	820	0
Oil Age	hrs	Client Info		0	820	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	40	36	11
Chromium	ppm	ASTM D5185m	>20	2	2	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		1	<1	1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	1	0
Lead	ppm	ASTM D5185m	>40	3	1	0
Copper	ppm	ASTM D5185m	>330	89	115	8
Soppei Tin		ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m	>10	0	0	0
Cadmium		ASTM D5185m		0	0	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	7	13
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	63	65	63
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	857	947	768
Calcium	ppm	ASTM D5185m	1070	1081	1149	1186
Phosphorus	ppm	ASTM D5185m	1150	958	1021	962
Zinc	ppm	ASTM D5185m	1270	1168	1314	1137
Sulfur	ppm	ASTM D5185m	2060	2355	3249	2729
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	7	3
Sodium	ppm	ASTM D5185m		5	5	0
Potassium	ppm	ASTM D5185m	>20	2	1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.2	1.1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	11.0	10.7	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	21.6	18.7
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	17.7	13.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.7	7.6	8.7
()	0 - 9					



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OIL ANALYSIS REPORT

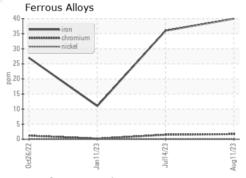


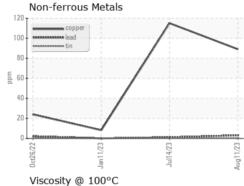
Jul14/23,

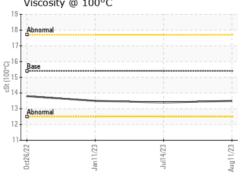
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

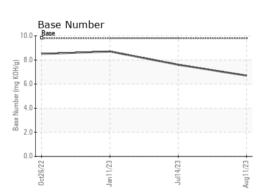
FLUID PROPI	ERITES	method	ilmit/base		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.4	13.5

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10604590

: GFL0083044 : 05924643 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Aug 2023 Diagnosed : 15 Aug 2023 Diagnostician : Wes Davis

GFL Environmental - 072 - Americus - Transwaste

361 McMath Mill Road Americus, GA US 31719

Contact: RICHARD HEINZERLING richard.heinzerling@gflenv.com T: (229)924-3669

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: GFL072 [WUSCAR] 05924643 (Generated: 08/15/2023 17:12:12) Rev: 1

Submitted By: George Sawyer