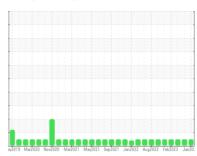


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **3879** Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 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

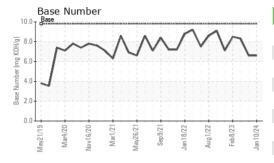
Fluid Condition

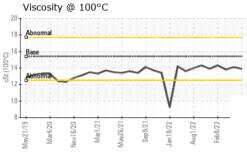
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

#2019 Mar2020 Nov2020 Mar2021 Mar2021 Sap2021 Jan2022 Aug2022 Feb2023 Jan203							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0098521	GFL0087788	GFL0082245	
Sample Date		Client Info		10 Jan 2024	04 Aug 2023	17 May 2023	
Machine Age	hrs	Client Info		14481	11714	11409	
Oil Age	hrs	Client Info		600	600	300	
Oil Changed		Client Info		Changed	Changed	Not Changd	
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	>120	20	16	18	
Chromium	ppm	ASTM D5185m	>20	1	<1	<1	
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1	
Titanium	ppm	ASTM D5185m	>2	<1	0	<1	
Silver	ppm	ASTM D5185m	>2	0	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	19	4	7	
Lead	ppm	ASTM D5185m	>40	1	1	<1	
Copper	ppm	ASTM D5185m	>330	2	5	3	
Tin	ppm	ASTM D5185m	>15	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	1	4	10	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	59	63	62	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	921	799	832	
Calcium	ppm	ASTM D5185m	1070	1043	1200	1268	
Phosphorus	ppm	ASTM D5185m	1150	974	962	977	
Zinc	ppm	ASTM D5185m	1270	1210	1182	1223	
Sulfur	ppm	ASTM D5185m	2060	2754	2718	3340	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	4	10	
Sodium	ppm	ASTM D5185m		4	0	4	
Potassium	ppm	ASTM D5185m	>20	22	4	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.7	0.4	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	9.3	8.1	7.8	
Sulfation	Abs/.1mm	*ASTM D7415		20.5	19.3	19.3	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	14.9	15.2	
Base Number (BN)	mg KOH/g	ASTM D2896		6.6	6.6	8.3	
(DIV)	mg nong	. IOTHI DEGGO	3.0	0.0	0.0	0.0	



OIL ANALYSIS REPORT

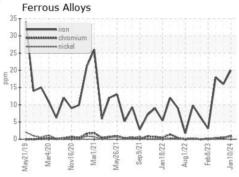


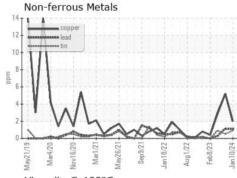


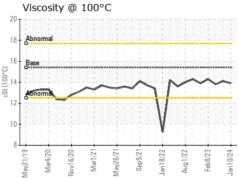
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

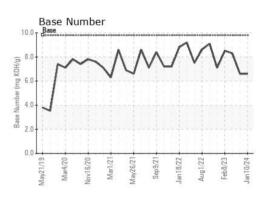
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.1	13.8

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number** Test Package : FLEET

: GFL0098521 : 06058699

: 10830081

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 11 Jan 2024

Diagnosed Diagnostician : Wes Davis

: 12 Jan 2024

GFL Environmental - 006 - Wilmington

3618 US Highway 421 N Wilmington, NC US 28401

Contact: Eric Wood eric.wood@gflenv.com T: (717)723-1956

* - 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)

F: (910)762-6880