

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id 913116 Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (28 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

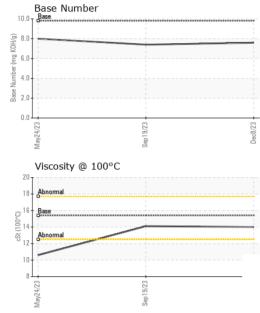
Fluid Condition

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

<u> </u>		Ma	y2023	Sep2023 Dec20	23	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096879	GFL0091710	GFL0071030
Sample Date		Client Info		08 Dec 2023	19 Sep 2023	24 May 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		600	0	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	SEVERE
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	0.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	14	15	39
Chromium	ppm	ASTM D5185m	>20	1	<1	2
Nickel	ppm	ASTM D5185m	>5	6	8	10
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	1
Aluminum	ppm	ASTM D5185m	>20	2	<1	5
Lead	ppm	ASTM D5185m	>40	<1	0	3
Copper	ppm	ASTM D5185m	>330	8	22	198
Tin	ppm	ASTM D5185m	>15	<1	<1	3
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	<1	217
Barium	ppm	ASTM D5185m	0	12	0	0
Molybdenum	ppm	ASTM D5185m	60	61	63	118
Manganese	ppm	ASTM D5185m	0	<1	<1	6
Magnesium	ppm	ASTM D5185m	1010	954	961	722
Calcium	ppm	ASTM D5185m	1070	1062	1123	1543
Phosphorus	ppm	ASTM D5185m	1150	960	1051	776
Zinc	ppm	ASTM D5185m	1270	1219	1295	953
Sulfur	ppm	ASTM D5185m	2060	2878	3029	2731
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	82
Sodium	ppm	ASTM D5185m		0	<1	8
Potassium	ppm	ASTM D5185m	>20	2	2	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	8.0	7.8	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	19.3	24.6
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	15.2	22.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.6	7.4	8.0
	0					



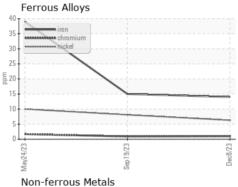
OIL ANALYSIS REPORT

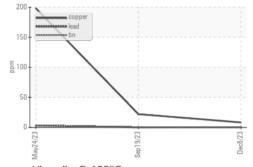


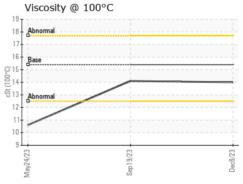
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

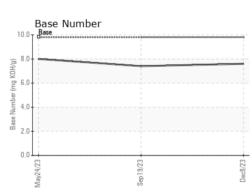
FLUID FROF		memou			HISTORY	1115101 y 2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.1	△ 10.6

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10791086 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0096879 : 06035857

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

Recieved : 15 Dec 2023 Diagnosed : 18 Dec 2023 Diagnostician : Wes Davis

GFL Environmental - 401 - Fort Wayne Hauling 4429 ALLEN MARTIN DR FORT WAYNE, IN US 46806

Contact: Stephanie Burton stephanieburton@gflenv.com T: (260)747-5037

* - 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: GFL401 [WUSCAR] 06035857 (Generated: 12/18/2023 05:13:12) Rev: 1

Submitted By: See also GFL401 - ZACHORY ROEHM