

OIL ANALYSIS REPORT

Sample Rating Trend







(MW3084) Machine Id **2679**

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (12 GAL)

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

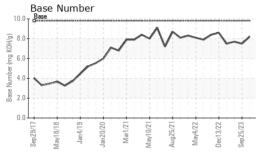
Fluid Condition

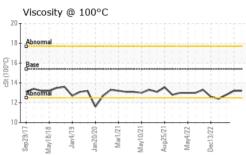
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		p2017 May201	8 Jan2019 Jan2020 Mar203	21 May2021 Aug2021 May2022 Dec2	UZZ SepZUZ3	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0068107	GFL0068140	GFL0068146
Sample Date		Client Info		12 Jan 2024	25 Sep 2023	17 Jul 2023
Machine Age	hrs	Client Info		16412	15768	15223
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	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	>165	11	11	11
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	5	3
Lead	ppm	ASTM D5185m	>150	1	2	0
Copper	ppm	ASTM D5185m	>90	<1	1	<1
Tin	ppm	ASTM D5185m		<1	<1	0
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	6	6	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	64	65
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	992	1028	1008
Calcium	ppm	ASTM D5185m	1070	1143	1181	1208
Phosphorus	ppm	ASTM D5185m	1150	1021	1173	1092
Zinc	ppm	ASTM D5185m	1270	1270	1447	1368
Sulfur	ppm	ASTM D5185m	2060	3032	3455	3800
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	4	5	5
Sodium	ppm	ASTM D5185m		4	4	3
Potassium	ppm	ASTM D5185m	>20	5	6	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.4	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.0	9.1	9.2
Sulfation	Abs/.1mm	*ASTM D7415		19.4	19.6	19.8
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	15.4	15.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	7.5	7.7
Eddo Hambor (BIV)	mg norng	. 10 1 111 DE000	3.0	V.L	7.0	7.7



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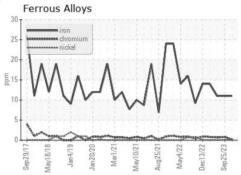


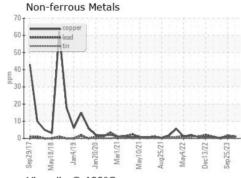


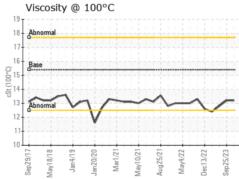
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

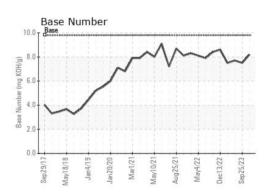
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.2	12.8

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0068107 : 06069955 : 10846632

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 24 Jan 2024 Diagnosed : 25 Jan 2024

Diagnostician : Wes Davis

GFL Environmental - 028 - Weldon 2211 US Highway 301

Halifax, NC US 27839

Contact: TRAVIS PORCH tporch@gflenv.com

T: (252)532-3344

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: GFL028 [WUSCAR] 06069955 (Generated: 01/25/2024 10:13:15) Rev: 1

Submitted By: TRAVIS PORCH