

OIL ANALYSIS REPORT

(EPI996) 10700

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (11 GAL)

Sample Rating Trend



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

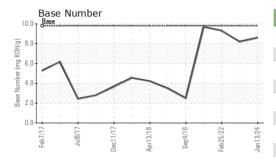
Fluid Condition

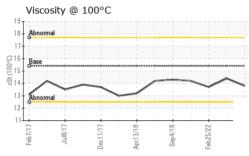
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		Feb 2017	Jul2017 Dec2017	Apr2018 Sep2018 Feb2022	Jan2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number Sample Date		Client Info		GFL0068882 13 Jan 2024	GFL0044613 17 Jan 2023	GFL0030559 25 Feb 2022
Machine Age	hrs	Client Info		1526	0	0
Oil Age	hrs	Client Info		0	0	90
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	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 METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	37	61	56
Chromium	ppm	ASTM D5185m	>5	6	3	3
Nickel	ppm	ASTM D5185m	>4	0	0	1
Titanium	ppm	ASTM D5185m	>2	<1	2	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>15	7	10	5
Lead	ppm	ASTM D5185m	>25	<1	<1	1
Copper	ppm	ASTM D5185m	>100	3	36	1
Tin	ppm	ASTM D5185m	>4	0	<1	2
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	5	12
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	69	65
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	947	809	1026
Calcium	ppm	ASTM D5185m	1070	1024	1052	1261
Phosphorus	ppm	ASTM D5185m	1150	1035	878	1158
Zinc	ppm	ASTM D5185m	1270	1224	1096	1316
Sulfur	ppm	ASTM D5185m	2060	3061	2817	2909
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	17	8	11
Sodium	ppm	ASTM D5185m		6	26	4
Potassium	ppm	ASTM D5185m	>20	2	5	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.6	1.8	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.0	10.2	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	22.2	19.5
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	15.7	14.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	8.2	9.3
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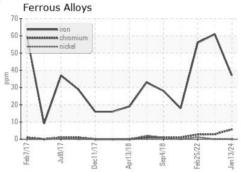


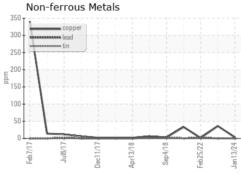


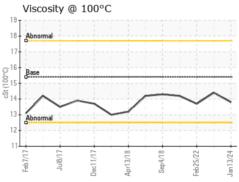
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

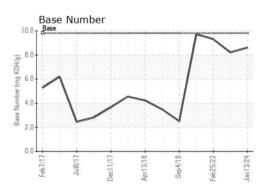
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	14.4	13.7

GRAPHS













Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number**

: GFL0068882 : 06066670 : 10843347 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 22 Jan 2024

Diagnosed : 23 Jan 2024 Diagnostician : Don Baldridge 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] 06066670 (Generated: 01/23/2024 13:21:15) Rev: 1