

OIL ANALYSIS REPORT

[0111049] 2845A

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (10 GAL)

Sample Rating Trend



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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

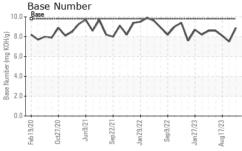
Fluid Condition

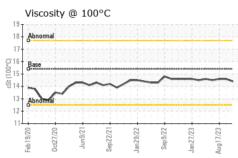
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		b2020 Oct20	020 Jun2021 Sep2021	Jan2022 Sep2022 Jan2023	Aug2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111049	GFL0098540	GFL0087775
Sample Date		Client Info		21 Feb 2024	21 Oct 2023	17 Aug 2023
Machine Age	hrs	Client Info		14030	13144	12631
Oil Age	hrs	Client Info		886	513	604
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>100	10	8	16
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	7	8
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	1	2
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	0	<1
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	62	60	62
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	924	942	991
Calcium	ppm	ASTM D5185m	1070	1054	1063	1149
Phosphorus	ppm	ASTM D5185m	1150	1062	1076	1032
Zinc	ppm	ASTM D5185m	1270	1233	1312	1287
Sulfur	ppm	ASTM D5185m	2060	3380	2998	3510
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	3	3
Sodium	ppm	ASTM D5185m		0	0	2
Potassium	ppm	ASTM D5185m	>20	6	11	12
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	5.9	7.8	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	19.4	20.0
FLUID DEGRA	NOITAG	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	15.2	15.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.9	7.5	8.1
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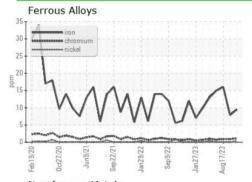


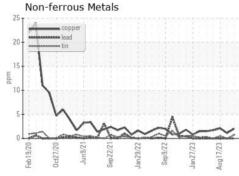


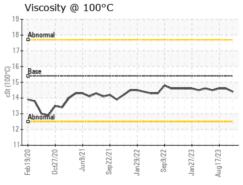
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

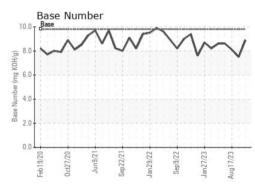
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	14.6	14.6

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06102300 Unique Number : 10900530 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0111049

Received **Tested** Diagnosed

: 27 Feb 2024 : 28 Feb 2024 : 28 Feb 2024 - Wes Davis

3618 US Highway 421 N

GFL Environmental - 006 - Wilmington

Wilmington, NC US 28401 Contact: Eric Wood eric.wood@gflenv.com

> T: (717)723-1956 F: (910)762-6880

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)