

OIL ANALYSIS REPORT

(P642630) 10780

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

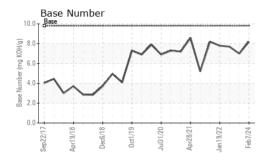
Fluid Condition

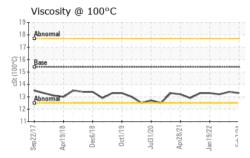
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL) #2017 Ap/2018 Dec2018 Oc2019 Ju/2020 Ap/2021 Ju-2022 Feb.202						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109585	GFL0096978	GFL0084251
Sample Date		Client Info		07 Feb 2024	15 Nov 2023	19 May 2023
Machine Age	hrs	Client Info		12469	12210	12115
Oil Age	hrs	Client Info		354	12115	12115
Oil Changed		Client Info		Not Changd	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	9	19	20
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	2	0
Lead	ppm	ASTM D5185m	>150	<1	<1	2
Copper	ppm	ASTM D5185m	>90	2	25	2
Tin	ppm	ASTM D5185m	>5	<1	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	14	16	11
Barium	ppm	ASTM D5185m	0	<1	9	0
Molybdenum	ppm	ASTM D5185m	60	57	67	65
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	814	832	941
Calcium	ppm	ASTM D5185m	1070	1100	1112	1241
Phosphorus	ppm	ASTM D5185m	1150	1010	1003	1009
Zinc	ppm	ASTM D5185m	1270	1109	1138	1285
Sulfur	ppm	ASTM D5185m	2060	3411	3285	3344
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	3	6	5
Sodium	ppm	ASTM D5185m		0	2	5
Potassium	ppm	ASTM D5185m	>20	2	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.3	0.2	0.6
Nitration	Abs/cm	*ASTM D7624	>20	6.5	6.1	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	17.3	21.7
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	13.2	17.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	7.0	7.7
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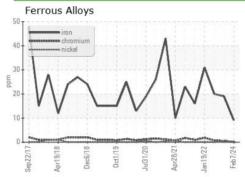


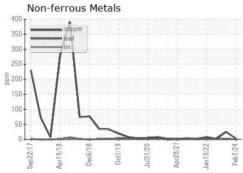


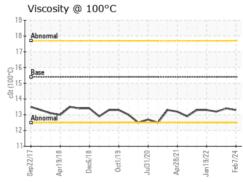
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

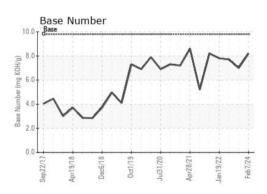
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.4	13.2

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number : 06083347

Test Package : FLEET

: GFL0109585 Unique Number : 10870792

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Feb 2024 **Tested**

: 08 Feb 2024 Diagnosed : 08 Feb 2024 - Wes Davis

GFL Environmental - 031 - Greenville/Spartanburg

1635 Antioch Church Rd Piedmont, SC

US 29673

Contact: TECHNICIAN ACCOUNT catherine.anastasio@wearcheck.com

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)

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