

OIL ANALYSIS REPORT

(P663866) 10947

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- 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

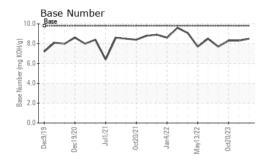
Fluid Condition

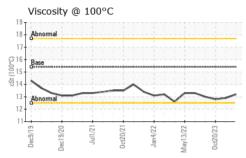
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		ec2U19 Dec	2020 Jul2021 Oct2	021 Jan2022 May2022 C	lct2023	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096907	GFL0096940	GFL0050889
Sample Date		Client Info		05 Feb 2024	09 Jan 2024	20 Oct 2023
Machine Age	nrs	Client Info		3913	3732	3180
Oil Age	hrs	Client Info		14108	3732	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	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 METALS		method	limit/base	current	history1	history2
Iron p	opm	ASTM D5185m	>75	9	14	15
Chromium	opm	ASTM D5185m	>5	<1	<1	<1
Nickel	opm	ASTM D5185m	>4	<1	0	<1
Titanium	opm	ASTM D5185m	>2	<1	0	<1
Silver	opm	ASTM D5185m	>2	0	0	0
Aluminum	opm	ASTM D5185m	>15	3	5	4
Lead	opm	ASTM D5185m	>25	<1	0	0
Copper	opm	ASTM D5185m	>100	<1	<1	<1
Tin p	opm	ASTM D5185m	>4	<1	0	0
Vanadium	opm	ASTM D5185m		0	<1	0
Cadmium	opm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	opm	ASTM D5185m	0	12	10	16
Barium	opm	ASTM D5185m	0	0	0	3
Molybdenum	opm	ASTM D5185m	60	64	53	65
Manganese	opm	ASTM D5185m	0	<1	0	0
Magnesium p	opm	ASTM D5185m	1010	926	822	808
Calcium	opm	ASTM D5185m	1070	1089	984	1107
Phosphorus p	opm	ASTM D5185m	1150	973	958	916
Zinc	opm	ASTM D5185m	1270	1228	1096	1159
Sulfur	opm	ASTM D5185m	2060	3048	2859	3392
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	opm	ASTM D5185m	>25	4	4	5
Sodium	opm	ASTM D5185m		0	1	<1
Potassium	opm	ASTM D5185m	>20	1	1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	0.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	5.6	6.6	7.1
Sulfation /	Abs/.1mm	*ASTM D7415	>30	17.2	17.8	18.3
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation /	Abs/.1mm	*ASTM D7414	>25	12.5	12.9	13.3
Base Number (BN)	ng KOH/g	ASTM D2896	9.8	8.5	8.3	8.3
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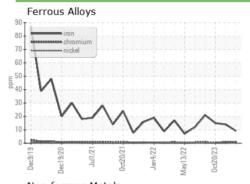


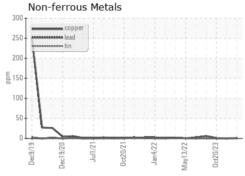


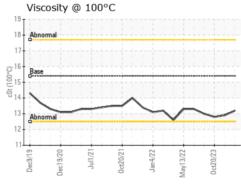
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

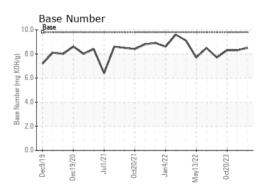
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	12.9	12.8

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number : 06085283 Unique Number : 10872728

Test Package : FLEET

: GFL0096907

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

: 09 Feb 2024 : 12 Feb 2024 Diagnosed : 12 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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