

OIL ANALYSIS REPORT

GFL035 2627

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (40 QTS)

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

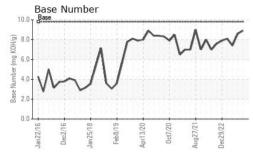
Fluid Condition

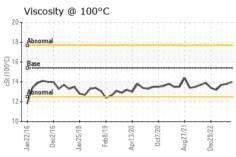
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

•		12016 Dec201	6 Jan2018 Feb2019	Apr2020 Oct2020 Aug2021 E	lec2022	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102360	GFL0102310	GFL0071547
Sample Date		Client Info		07 Feb 2024	22 Dec 2023	07 Jun 2023
	nrs	Client Info		18669	18669	18669
Oil Age	nrs	Client Info		600	600	600
Oil Changed		Client Info		Not Changd	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	>165	14	9	18
Chromium	opm	ASTM D5185m	>5	<1	0	1
Nickel	opm	ASTM D5185m	>4	0	0	<1
Titanium	opm	ASTM D5185m	>2	<1	0	0
Silver	opm	ASTM D5185m	>2	0	0	0
Aluminum	opm	ASTM D5185m	>20	3	1	7
Lead	opm	ASTM D5185m	>150	<1	0	3
	opm	ASTM D5185m	>90	<1	0	0
	opm		>5	<1	0	<1
	opm	ASTM D5185m		<1	0	0
	opm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	opm	ASTM D5185m	0	2	6	4
Barium	opm	ASTM D5185m	0	0	0	0
Molybdenum	opm	ASTM D5185m	60	60	48	65
Manganese	opm	ASTM D5185m	0	<1	0	<1
Magnesium	opm	ASTM D5185m	1010	950	829	1020
Calcium	opm	ASTM D5185m	1070	1113	1052	1141
Phosphorus	opm	ASTM D5185m	1150	1071	872	1131
Zinc	opm	ASTM D5185m	1270	1281	1121	1417
Sulfur	opm	ASTM D5185m	2060	3240	2779	3928
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	opm	ASTM D5185m	>35	5	5	8
Sodium	opm	ASTM D5185m		2	2	4
Potassium	opm	ASTM D5185m	>20	2	0	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.6	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	7.2	7.7	10.2
	Abs/.1mm	*ASTM D7415	>30	19.3	19.7	22.4
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation /	Abs/.1mm	*ASTM D7414	>25	14.3	15.0	19.8
	ng KOH/g	ASTM D2896	9.8	8.9	8.6	7.4
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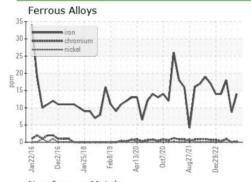


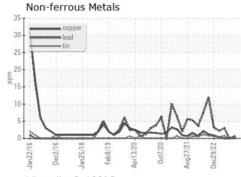


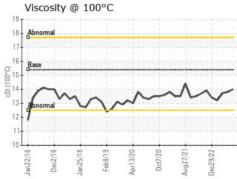
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

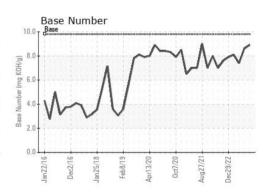
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.8	13.7

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06084282 Unique Number : 10871727 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0102360 Received : 08 Feb 2024

Tested : 09 Feb 2024 Diagnosed : 09 Feb 2024 - Wes Davis

GFL Environmental - 035 - Greensboro

1236 Elon Place High Point, NC US 27263

Contact: JORGE COSTA jorge.costa@gflenv.com T: (336)668-3712

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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