

OIL ANALYSIS REPORT

(30300996) FL0112

Component **Propane Engine**

PETRO CANADA DURON SHP 15W40 (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Sample only)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

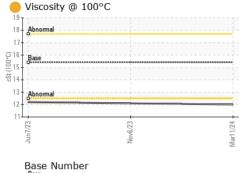
Fluid Condition

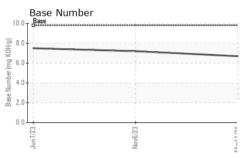
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

AL)		Ju	2023	Nov2023 Mar20	124	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0101615	GFL0094848	GFL0077505
Sample Date		Client Info		11 Mar 2024	06 Nov 2023	07 Jun 2023
Machine Age	hrs	Client Info		7602	7560	7524
Oil Age	hrs	Client Info		78	36	39
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	ATTENTION	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	88	93	75
Chromium	ppm	ASTM D5185m	>25	3	2	2
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>20	9	8	7
Lead	ppm	ASTM D5185m	>25	20	19	17
Copper	ppm	ASTM D5185m	>35	15	13	11
Tin	ppm	ASTM D5185m	>8	2	<1	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	9	6	8
Barium	ppm	ASTM D5185m	0	0	<1	2
Molybdenum	ppm	ASTM D5185m	60	51	55	55
Manganese	ppm	ASTM D5185m	0	2	2	2
Magnesium	ppm	ASTM D5185m	1010	600	603	609
Calcium	ppm	ASTM D5185m	1070	1569	1572	1525
Phosphorus	ppm	ASTM D5185m	1150	844	807	904
Zinc	ppm	ASTM D5185m	1270	1124	1167	1136
Sulfur	ppm	ASTM D5185m	2060	3505	3266	3358
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	12	13	11
Sodium	ppm	ASTM D5185m		11	9	7
Potassium	ppm	ASTM D5185m	>20	1	3	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.3	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	21.0	20.9
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	15.4	15.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.7	7.2	7.5
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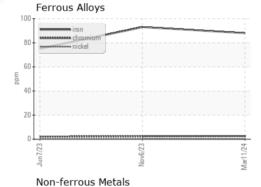


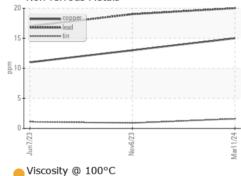


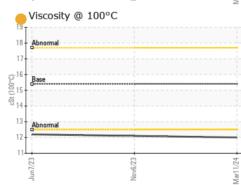
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

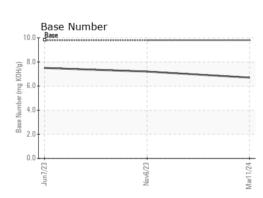
FLUID PROPE	RTIES					
Visc @ 100°C	cSt	ASTM D445	15.4	12.0	12.1	12.2

GRAPHS













Certificate L2367

Laboratory Sample No.

: GFL0101615 Lab Number : 06117677 Unique Number : 10926510 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Mar 2024 Tested

: 14 Mar 2024 Diagnosed : 15 Mar 2024 - Don Baldridge

GFL Environmental - 625 - Harrison Hauling

4102 Industrial Pkwy Harrison, MI US 48625

Contact: RON TROJANEK

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. ront@northerna1.com T: (231)624-0372

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)