

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL





928100 Component **Diesel Engine**

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

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

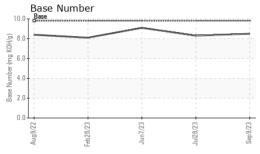
Fluid Condition

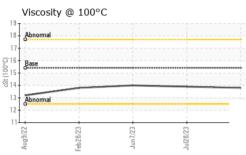
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

`		Aug2022	Feb2023	Jun2023 Jul2023	Sep2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0086873	GFL0068307	GFL0068292
Sample Date		Client Info		09 Sep 2023	28 Jul 2023	07 Jun 2023
Machine Age	hrs	Client Info		16163	16163	15021
Oil Age	hrs	Client Info		16163	600	13205
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	3	6	27
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	5
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	2	5
Barium	ppm	ASTM D5185m	0	44	0	0
Molybdenum	ppm	ASTM D5185m	60	54	59	61
Manganese	ppm	ASTM D5185m	0	1	0	<1
Magnesium	ppm	ASTM D5185m	1010	846	891	920
Calcium	ppm	ASTM D5185m	1070	967	1082	1100
Phosphorus	ppm	ASTM D5185m	1150	906	993	1012
Zinc	ppm	ASTM D5185m	1270	1124	1171	1229
Sulfur	ppm	ASTM D5185m	2060	3171	2915	3470
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm		>25	3	3	22
Sodium	ppm	ASTM D5185m		3	0	2
Potassium	ppm	ASTM D5185m		3	1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5	0.7	0.3
Nitration	Abs/cm	*ASTM D7624		6.3	7.5	5.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	18.6	18.7
FLUID DEGRAI	ATION	method	limit/base	current	history1	history2
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Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	14.0	13.9
			>25			,



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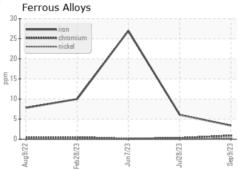


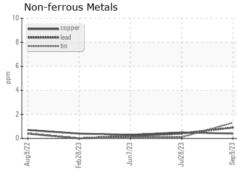


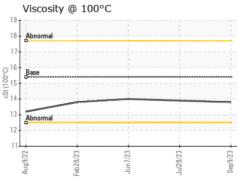
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

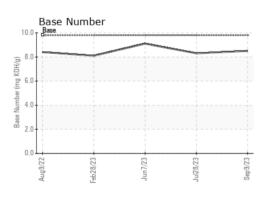
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.9	14.0	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10648464 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0086873 : 05952505

Received Diagnosed

: 15 Sep 2023 : 18 Sep 2023 Diagnostician : Wes Davis

GFL Environmental - 419 - Metro Saginaw

6950 N Michigan Saginaw, MI US 48604 Contact: Jeremy Hines

jhines@gflenv.com

T: (800)684-1277

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)