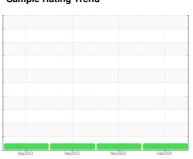


OIL ANALYSIS REPORT

Sample Rating Trend







714053
Component
Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

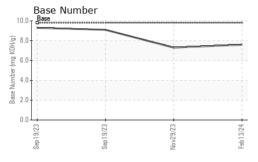
Fluid Condition

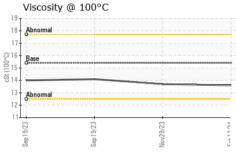
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N SHP 15W40 (-	· GAL)	Sep202	3 Sep2023	Nov2023 Fe	b2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0107730	GFL0096612	GFL002755
Sample Date		Client Info		13 Feb 2024	29 Nov 2023	19 Sep 2023
Machine Age	hrs	Client Info		1764	1175	760
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
-uel		WC Method	>3.0	<1.0	<1.0	<1.0
<i>N</i> ater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>90	17	23	4
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Γitanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	1	1	1
_ead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	2	2	<1
Γin	ppm	ASTM D5185m	>15	<1	0	0
√anadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	5	4
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	57	63	56
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	897	851	896
Calcium	ppm	ASTM D5185m	1070	1039	1085	1035
Phosphorus	ppm	ASTM D5185m	1150	936	878	973
Zinc	ppm	ASTM D5185m	1270	1158	1133	1187
Sulfur	ppm	ASTM D5185m	2060	3140	2985	3699
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	3
Sodium	ppm	ASTM D5185m		<1	2	4
Potassium	ppm	ASTM D5185m	>20	2	3	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.5	0.5	0.1
Vitration	Abs/cm	*ASTM D7624	>20	9.3	9.3	5.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	20.2	17.8
FLUID DEGRA	NOITAD.	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	17.5	13.7



OIL ANALYSIS REPORT

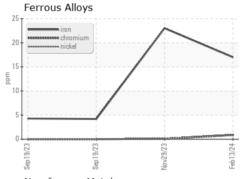


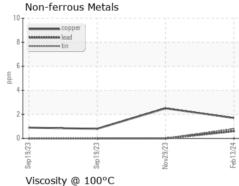


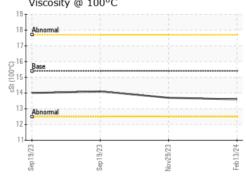
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

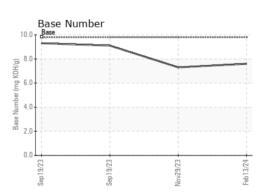
FLUID PROPI	ERITES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.7	14.1

GRAPHS













Laboratory Sample No.

Lab Number : 06092224 Unique Number: 10885077 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0107730 Received **Tested**

Diagnosed

: 16 Feb 2024 : 19 Feb 2024 : 19 Feb 2024 - Wes Davis

Pontiac, MI US 48340 Contact: Ricky Matthews rickymathews@gflenv.com

T: (586)825-9514

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)

Report Id: GFL465 [WUSCAR] 06092224 (Generated: 02/19/2024 09:17:11) Rev: 1

Submitted By: Ricky Matthews

GFL Environmental - 465 - Pontiac

888 Baldwin