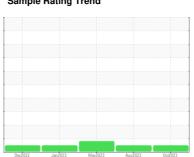


OIL ANALYSIS REPORT

Sample Rating Trend









819018 **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

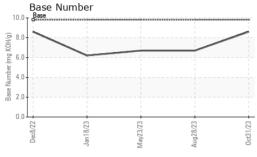
Fluid Condition

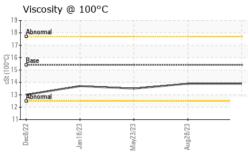
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

14 3111 13 14 40 (- GAL)	Dec2022	Jan2023	May2023 Aug2023	Oct2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092781	GFL0080824	GFL0080767
Sample Date		Client Info		31 Oct 2023	28 Aug 2023	23 May 2023
Machine Age	hrs	Client Info		3715	3446	0
Oil Age	hrs	Client Info		3715	600	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
-uel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	e e	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>80	10	27	11
Chromium	ppm	ASTM D5185m	>5	<1	2	1
Nickel	ppm	ASTM D5185m	>2	<1	0	<u>^</u> 6
Γitanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m		2	16	2
_ead	ppm	ASTM D5185m	>30	0	<1	1
Copper	ppm	ASTM D5185m	>150	1	2	5
Γin	ppm	ASTM D5185m	>5	0	0	1
√anadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	1	2
Barium	ppm	ASTM D5185m	0	4	0	0
Molybdenum	ppm	ASTM D5185m	60	60	68	57
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	850	1109	1013
Calcium	ppm	ASTM D5185m	1070	1000	1245	1125
Phosphorus	ppm	ASTM D5185m	1150	906	1166	951
Zinc	ppm	ASTM D5185m	1270	1136	1469	1289
Sulfur	ppm	ASTM D5185m	2060	2674	3955	3122
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4	6	4
Sodium	ppm	ASTM D5185m		1	9	3
Potassium	ppm	ASTM D5185m	>20	6	34	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.7	0.4
Vitration	Abs/cm	*ASTM D7624	>20	6.4	11.3	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	22.0	20.2
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	19.7	16.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	6.7	6.7
` '	0					



OIL ANALYSIS REPORT

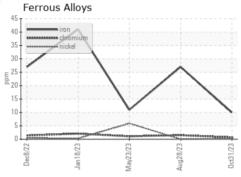


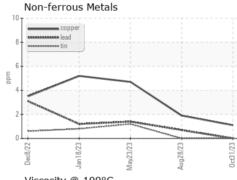


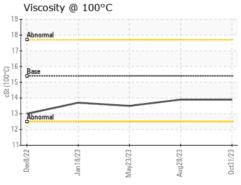
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

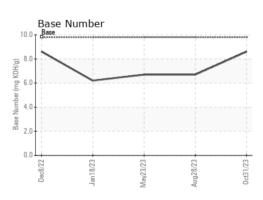
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.9	13.5

GRAPHS













Laboratory Sample No.

Lab Number Unique Number : 10725994

: GFL0092781 : 05997634

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed Diagnostician : Wes Davis

: 03 Nov 2023 : 06 Nov 2023 GFL Environmental - 455 - Flint

2051 W. Bristol Rd Flint Township, MI US 48507

Contact: MARK WOMBLE mwomble@gflenv.com T: (586)825-9514

Test Package : FLEET Certificate L2367 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)