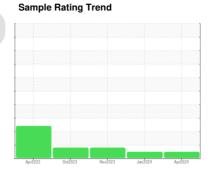


OIL ANALYSIS REPORT



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

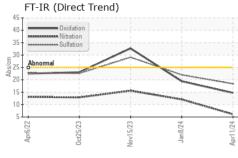
Fluid Condition

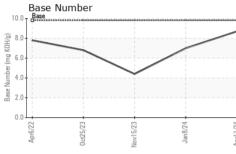
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

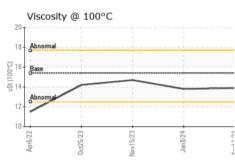
110111 101140 (,					
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104455	GFL0104259	GFL0059250
Sample Date		Client Info		11 Apr 2024	08 Jan 2024	15 Nov 2023
Machine Age	hrs	Client Info		11170	189043	186356
Oil Age	hrs	Client Info		300	188098	10037
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	MARGINAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<u> </u>
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	4	28	61
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	1	11
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	<1	<1	2
Tin	ppm	ASTM D5185m	>15	0	0	<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	2	1	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	56	61
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	992	916	971
Calcium	ppm	ASTM D5185m	1070	1061	1033	1095
Phosphorus	ppm	ASTM D5185m	1150	1118	911	1054
Zinc	ppm	ASTM D5185m	1270	1302	1260	1318
Sulfur	ppm	ASTM D5185m	2060	3761	2799	2646
CONTANT						
CONTAMINAN	ITS	method	limit/base	current	history1	history2
	DPm	method ASTM D5185m	limit/base >25	current 4	history1	history2
Silicon						
CONTAMINAN Silicon Sodium Potassium	ppm	ASTM D5185m		4	4	13
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	>25	4 2	4 5	13 9 20
Silicon Sodium Potassium INFRA-RED	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	4 2 <1	4 5 2	13 9 20
Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>25 >20 limit/base	4 2 <1 current	4 5 2 history1	13 9 20 history2
Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>25 >20 limit/base >6	4 2 <1 current 0.2	4 5 2 history1	9 20 history2 1.1
Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >6 >20	4 2 <1 current 0.2 6.1	4 5 2 history1 1.1 12.1	13 9 20 history2 1.1 15.6 29.1
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >6 >20 >30	4 2 <1 current 0.2 6.1 18.4	4 5 2 history1 1.1 12.1 22.0	13 9 20 history2 1.1 15.6



OIL ANALYSIS REPORT



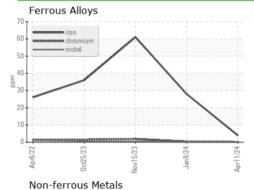




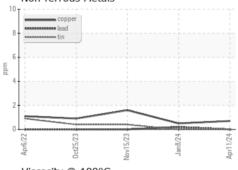
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

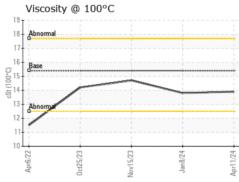
FLUID PROPI	ERTIES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.8	14.7

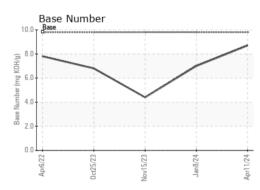
GRAPHS















Certificate 12367

Laboratory Sample No. Lab Number : 06150085 Unique Number : 10980163 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0104455

Received **Tested** Diagnosed

: 16 Apr 2024 : 17 Apr 2024 : 17 Apr 2024 - Wes Davis

GFL Environmental - 410 - Michigan West 39000 Van Born Rd

US 48184 Contact: Belal Dgheish bdgheish@gflenv.com T: (734)714-2340

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)

Wayne, MI