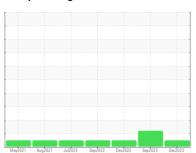


OIL ANALYSIS REPORT

Sample Rating Trend









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

DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

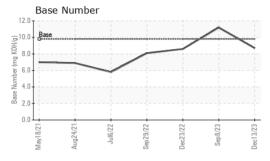
Fluid Condition

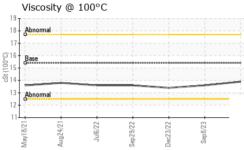
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		May2021	Aug2021 Jul2022		Dec2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0107043	GFL0091474	GFL0063319
Sample Date		Client Info		13 Dec 2023	08 Sep 2023	23 Dec 2022
Machine Age	hrs	Client Info		14756	14658	13998
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
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	>120	6	18	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	1	0
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	17	17	13
Tin	ppm	ASTM D5185m	>15	<1	<1	0
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	4	20	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	69	91	59
Manganese	ppm	ASTM D5185m	0	0	<1	0
Magnesium	ppm	ASTM D5185m	1010	1096	896	979
Calcium	ppm	ASTM D5185m	1070	1225	1017	1114
Phosphorus	ppm	ASTM D5185m	1150	1268	1027	974
Zinc	ppm	ASTM D5185m	1270	1442	1220	1290
Sulfur						
Sullui	ppm	ASTM D5185m	2060	4063	3754	3223
CONTAMINAN		ASTM D5185m method	2060 limit/base	4063 current	3754 history1	3223 history2
		method				
CONTAMINAN	ITS	method	limit/base	current	history1	history2
CONTAMINAN Silicon	TS ppm	method ASTM D5185m	limit/base	current 4	history1	history2
CONTAMINAN Silicon Sodium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 4 5	history1 16 • 660	history2 3 3
CONTAMINAN Silicon Sodium Potassium	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20	current 4 5 2	history1 16 660 6	history2 3 3 0
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	limit/base >25 >20 limit/base >4	current 4 5 2 current 0.2	history1 16 660 6 history1 0.2	history2 3 3 0 history2 0.4
CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >25 >20 limit/base	current 4 5 2 current	history1 16 660 6 history1	history2 3 3 0 history2
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >25 >20 limit/base >4 >20	current 4 5 2 current 0.2 5.7	history1 16 660 6 history1 0.2 8.1	history2 3 3 0 history2 0.4 8.2
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAL	ppm ppm ppm % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	limit/base >25 >20 limit/base >4 >20 >30 limit/base	current 4 5 2 current 0.2 5.7 18.2 current	history1 16 660 6 history1 0.2 8.1 17.6 history1	history2 3 0 history2 0.4 8.2 21.2 history2
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >25 >20 limit/base >4 >20 >30	current 4 5 2 current 0.2 5.7 18.2	history1 16 660 6 history1 0.2 8.1 17.6	history2 3 3 0 history2 0.4 8.2 21.2



OIL ANALYSIS REPORT

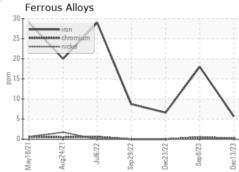


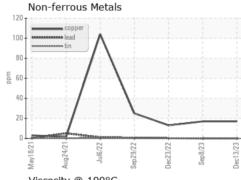


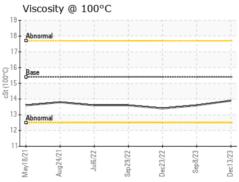
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

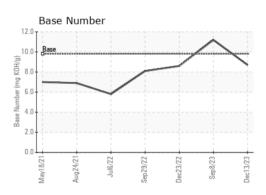
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.6	13.4

GRAPHS











Laboratory Sample No.

Lab Number **Unique Number** Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0107043 : 06039074

Diagnosed : 10794303

Recieved : 19 Dec 2023 : 20 Dec 2023 Diagnostician : Wes Davis

GFL Environmental - 465 - Pontiac

888 Baldwin 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)