

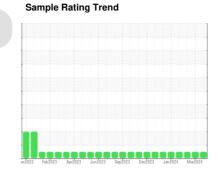
# **OIL ANALYSIS REPORT**



# (H916995) {UNASSIGNED} 913017

Front Diesel Engine

PETRO CANADA DURON SHP 15W40 (40 QTS)





### 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

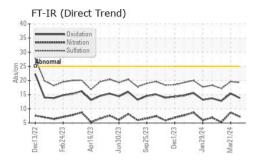
### **Fluid Condition**

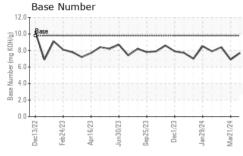
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

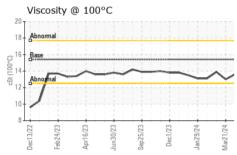
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098892	GFL0099024	GFL0098861
Sample Date		Client Info		11 Apr 2024	21 Mar 2024	01 Mar 2024
Machine Age	hrs	Client Info		4382	4050	4050
Oil Age	hrs	Client Info		4050	3623	3623
Oil Changed		Client Info		N/A	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
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	15	19	6
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	4	4	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	3
Lead	ppm	ASTM D5185m	>40	1	0	<1
Copper	ppm		>330	3	8	2
Tin	ppm	ASTM D5185m	>15	2	0	<1
Vanadium	ppm	ASTM D5185m	7.0	- <1	<1	0
Cadmium	ppm	ASTM D5185m		1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	56	54
Manganese	ppm	ASTM D5185m		1	<1	0
Magnesium	ppm	ASTM D5185m	1010	838	933	892
Calcium	ppm	ASTM D5185m		1059	1306	1043
Phosphorus	ppm	ASTM D5185m	1150	986	1045	979
Zinc	ppm	ASTM D5185m		1113	1312	1149
Sulfur	ppm	ASTM D5185m	2060	2988	3567	3125
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	3	6
Sodium	ppm	ASTM D5185m	>20	<1	2	3
Potassium	ppm	ASTM D5185m	>20	2	3	<1
INFRA-RED	1-1-	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.8	0.5	0.2
Nitration	Abs/cm	*ASTM D7624		7.2	8.7	5.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	19.6	17.2
FLUID DEGRAI			limit/base	current	history1	history2
					•	
Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414	>25	13.8	15.4	12.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	6.9	8.4



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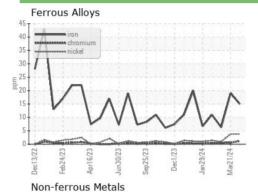


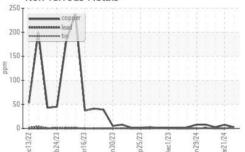


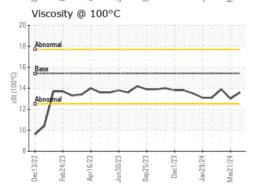
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

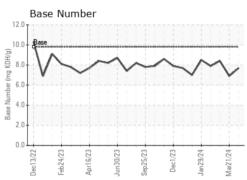
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.0	13.9

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

Lab Number : 06152730 Unique Number : 10982808

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0098892

Received : 18 Apr 2024 **Tested** Diagnosed

: 18 Apr 2024 : 18 Apr 2024 - Wes Davis

699 Jack Miller Boulevard Clarksville, TN US 37042

Contact: ROBERT THIBAULT robert.thibault@gflenv.com T: (931)552-7276

GFL Environmental - 084 - Clarksville

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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.

F: (931)572-9674