

## **OIL ANALYSIS REPORT**

Sample Rating Trend





Resample at the next service interval to monitor.

There is no indication of any contamination in the

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

oil is suitable for further service.

All component wear rates are normal.

DIAGNOSIS Recommendation

Contamination

Fluid Condition

Wear

oil.

427077-402331 Component Diesel Engine Fluid

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122571	GFL0117920	GFL011793
Sample Date		Client Info		27 Jun 2024	30 May 2024	17 May 2024
Machine Age	hrs	Client Info		19382	19242	19190
Oil Age	hrs	Client Info		0	600	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
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	3	5	7
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	3	4
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	1	2	4
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	4
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	4	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	54	57
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	1007	885	870
Calcium	ppm	ASTM D5185m	1070	1197	1021	1065
Phosphorus	ppm	ASTM D5185m	1150	1100	994	1022
Zinc	ppm	ASTM D5185m	1270	1338	1184	1168
Sulfur	ppm	ASTM D5185m	2060	4033	3171	3047
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	7
Sodium	ppm	ASTM D5185m		2	3	3
Potassium	ppm	ASTM D5185m	>20	0	<1	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.0	8.8	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	19.8	19.5
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	16.5	16.0



80 cSt (40°C)

60 40

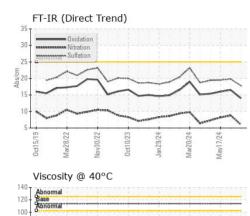
20

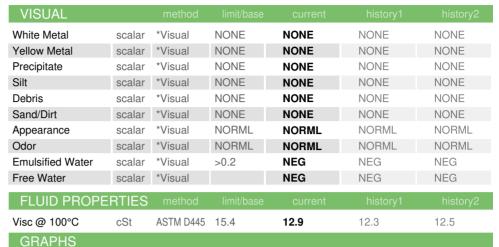
-20

20 18 lar28/77

Viscosity @ 100°C

## **OIL ANALYSIS REPORT**



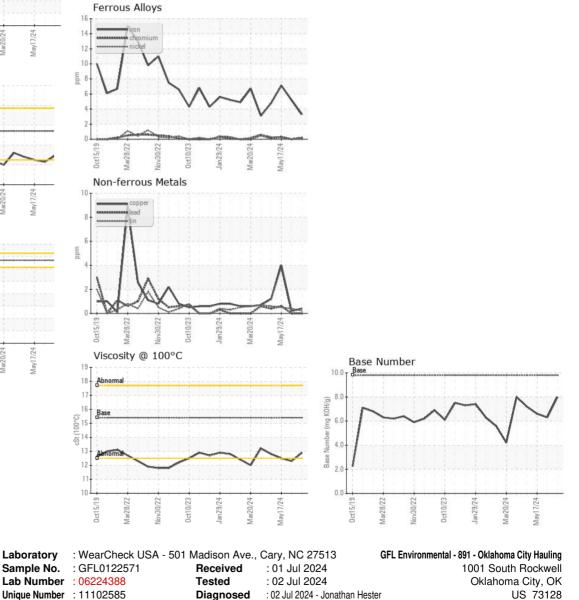


Mav17/24

/lav17/24

May17/24

Mar20/24



cSt (100°C) 1 an 29/24 Aar20/24 Viscosity @ 40°C 140 120 norma 100 ()-04) 150 40 60 40 20 -20 Oct15/19 Vov30/22 Mar20/24 /lar28/22 an 29/24

Unique Number : 11102585 Diagnosed : 02 Jul 2024 - Jonathan Hester Test Package : FLEET (Additional Tests: KV40) Certificate 12367 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: GFL891 [WUSCAR] 06224388 (Generated: 07/03/2024 02:16:41) Rev: 1

Submitted By: Andy Smith

andrew.smith@gflenv.com

Contact: Andy Smith

T: (405)306-1651

Page 2 of 2

E: