

## (80J2TW) PETERBILT 722022-310030 **Diesel Engine**

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

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Sulfur

Oxidation

Visc @ 100°C

ppm ASTM D5185m 2060

Abs/.1mm \*ASTM D7414 >25

ASTM D445

15.4

Base Number (BN) mg KOH/g ASTM D2896 9.8

cSt

W	FΛ	R
vv		

All component wear rates are normal.

$\sim$	MIN	

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0120187	GFL0070303	GFL0068598
Sample Date		Client Info		21 May 2024	13 Feb 2023	11 Jan 2023
Machine Age	hrs	Client Info		11661	19131	18965
Oil Age	hrs	Client Info		0	300	600
Filter Age	hrs	Client Info		0	300	600
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	33	21	37
Chromium	ppm	ASTM D5185m	>20	3	<1	2
Nickel	ppm	ASTM D5185m	>4	<1	2	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	7	1	2
Lead	ppm	ASTM D5185m	>40	<1	0	1
Copper	ppm	ASTM D5185m	>330	1	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	17	4	6
Potassium	ppm	ASTM D5185m	>20	8	2	1
Fuel	%	ASTM D3524	>5	<b>5</b> .3	▲ 5.0	<b>5</b> .2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.7	1.1
Nitration	Abs/cm	*ASTM D7624	>20	8.6	8.1	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	19.8	21.5
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
Sodium	ppm	ASTM D5185m		5	10	16
Boron	ppm	ASTM D5185m	0	5	<1	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	56	58
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	896	838	873
Calcium	ppm	ASTM D5185m	1070	1070	1016	1009
Phosphorus	ppm	ASTM D5185m	1150	933	927	933
Zinc	ppm	ASTM D5185m	1270	1178	1120	1107
0.11		LOTH DEVOE	0000		00.40	0000

WEAR

CONTAMINATION

FLUID CONDITION

NORMAL

**ABNORMAL** 

NORMAL

2843

15.4

9.0

13.3

3236

18.9

8.2

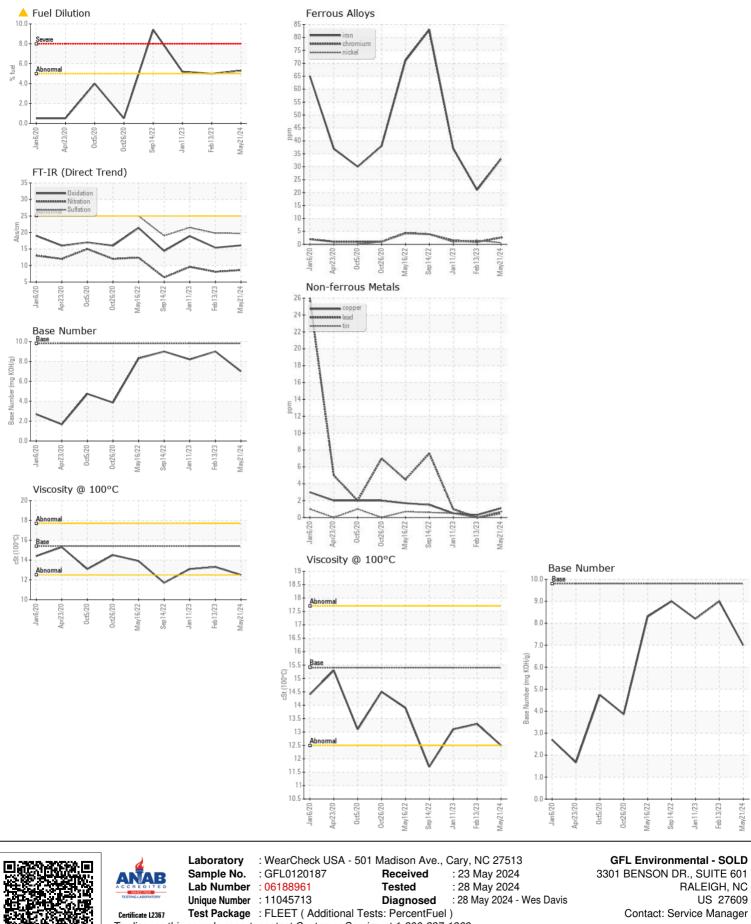
13.1

3249

16.1

7.0

12.5



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) F: (919)325-4040

Contact/Location: Service Manager - GFLSOLD Page 2 of 2

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