

(KN5435)

11337

Diesel Engine

PETRO CANADA DURON SHP 15W40 (6 GAL)

RE	CO	MM	EN	DA	TIC	DN

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.

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All component wear rates are normal.

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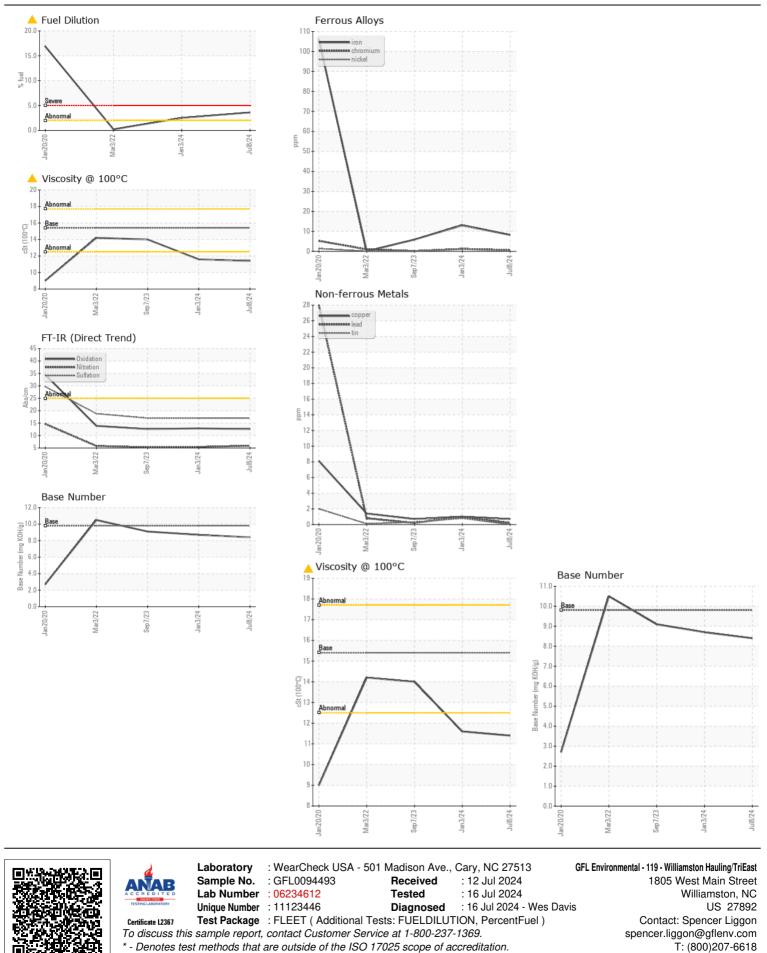
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

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		GFL0094493	GFL0058874	GFL0072413
Sample Date		Client Info		08 Jul 2024	03 Jan 2024	07 Sep 2023
Machine Age	hrs	Client Info		14765	14765	14765
Oil Age	hrs	Client Info		14059	14059	14059
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>150	8	13	6
Chromium	ppm	ASTM D5185m	>5	<1	1	<1
Nickel	ppm	ASTM D5185m	>5	<1	1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>15	4	2	3
Lead	ppm	ASTM D5185m	>30	<1	1	<1
Copper	ppm	ASTM D5185m	>75	<1	1	<1
Tin	ppm	ASTM D5185m	>6	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	3	5	4
Potassium	ppm	ASTM D5185m	>20	3	3	11
Fuel	%	ASTM D3524	>2.0	A 3.6	2 .5	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.9	5.4	5.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.0	17.0	17.0
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	nom	ASTM D5185m		2	0	4
	ppm		0	2 7	13	2
Boron	ppm	ASTM D5185m				
Barium	ppm	ASTM D5185m	0	0 59	0 57	0 59
Molybdenum	ppm	ASTM D5185m	60			
Manganese	ppm	ASTM D5185m	0	0 970	<1	<1
Magnesium	ppm	ASTM D5185m	1010	870	888	1046
Calcium	ppm	ASTM D5185m	1070	1095	1047	1318
Phosphorus Zin a	ppm	ASTM D5185m	1150	995	892	1091
Zinc	ppm	ASTM D5185m	1270	1162	1152	1335
Sulfur	ppm	ASTM D5185m	2060	2733	3332	3992
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.6	12.9	12.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	8.7	9.1
Visc @ 100°C	cSt	ASTM D445	15.4	🔌 11.4 🌙	11.6	14.0

NORMAL WEAR CONTAMINATION ABNORMAL **FLUID CONDITION ABNORMAL**



* - 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)

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