

Machine Id PETERBILT 10555 Component Diesel Engine PETRO CANADA DURON SHP 15W40 (7 GAL)

RECOMMENDATIO	N
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We advise that you check the fuel injection system. 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.

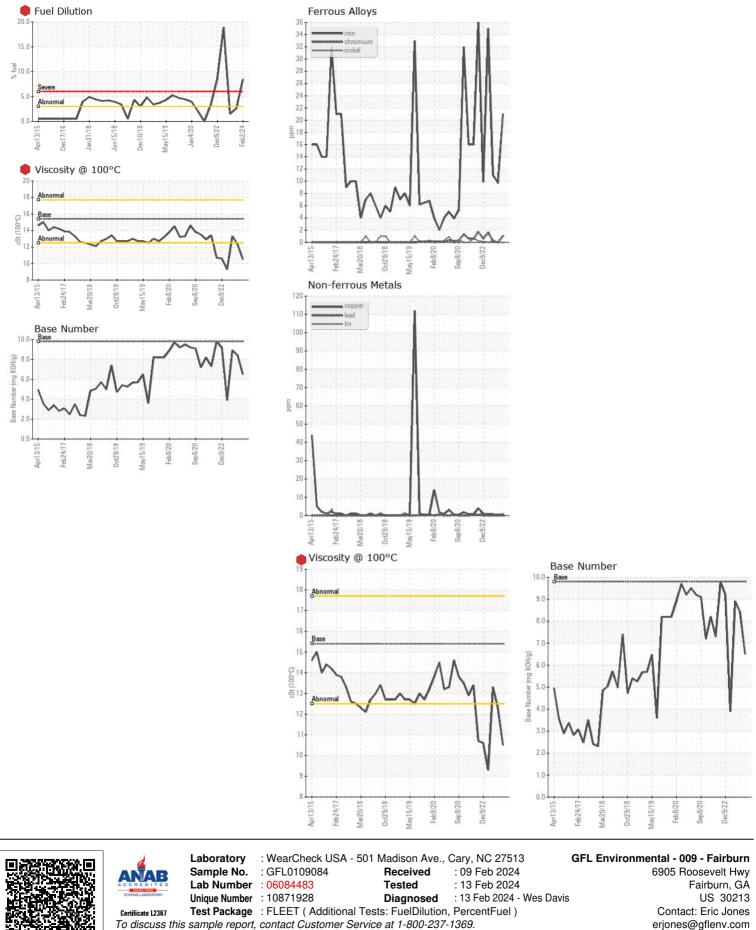
CONTAMINATION

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

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0109084	GFL0086201	GFL0086223
Sample Date		Client Info		02 Feb 2024	26 Sep 2023	02 Aug 2023
Machine Age	hrs	Client Info		3997	3677	83101
Oil Age	hrs	Client Info		0	3677	15399
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				SEVERE	MARGINAL	ATTENTION
Iron		ASTM D5185m	>75	21	10	11
Chromium	ppm ppm	ASTM D5185m	>5	1	0	<1
Nickel		ASTM D5185m	>4	0	0	<1
Titanium	ppm ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>15	5	1	3
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	۰ <1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m	~ 1	<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	6	8	5
Potassium	ppm	ASTM D5185m	>20	3	4	3
Fuel	%	ASTM D3524	>3.0	8 .4	2 .6	1 .5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.4	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.3	6.2	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	17.4	18.5
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
		*\/:		_		NODM
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
				NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Odor Emulsified Water	scalar scalar	*Visual *Visual	NORML >0.2	NORML NORML NEG	NORML NORML NEG	NORML NEG
Odor Emulsified Water Sodium	scalar scalar ppm	*Visual *Visual ASTM D5185m	NORML >0.2	NORML NORML NEG 5	NORML NORML NEG 3	NORML NEG 0
Odor Emulsified Water Sodium Boron	scalar scalar ppm ppm	*Visual *Visual ASTM D5185m ASTM D5185m	NORML >0.2	NORML NORML NEG 5 17	NORML NORML NEG 3 30	NORML NEG 0 61
Odor Emulsified Water Sodium Boron Barium	scalar scalar ppm ppm ppm	*Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NORML >0.2 0 0	NORML NORML NEG 5 17 0	NORML NORML NEG 3 30 0	NORML NEG 0 61 0
Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar ppm ppm ppm ppm	*Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML >0.2 0 0 60	NORML NORML NEG 5 17 0 56	NORML NORML NEG 3 30 0 61	NORML NEG 0 61 0 55
Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar ppm ppm ppm ppm	*Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML >0.2 0 0 60 0	NORML NORML 5 17 0 56 <1	NORML NORML NEG 3 30 0 61 0	NORML NEG 0 61 0 55 <1
Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML >0.2 0 0 60 0 1010	NORML NORML NEG 5 17 0 56 <1 703	NORML NORML NEG 3 30 0 61 0 847	NORML NEG 0 61 0 55 <1 708
Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML >0.2 0 0 60 0 1010 1070 1150 1270	NORML NORML NEG 5 17 0 56 <1 703 958	NORML NORML NEG 3 30 0 61 0 847 1150	NORML NEG 0 61 0 55 <1 708 1113
Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML >0.2 0 0 60 0 1010 1070 1150	NORML NORML NEG 5 17 0 56 <1 703 958 807	NORML NORML NEG 3 30 0 61 0 61 0 847 1150 957 1180 3129	NEG 0 61 0 55 <1 708 1113 ▲ 713
Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML >0.2 0 0 60 0 1010 1070 1150 1270	NORML NORML NEG 5 17 0 56 <1 703 958 807 978	NORML NORML NEG 3 30 0 61 0 61 0 847 1150 957 1180	NORML NEG 0 61 0 55 <1 708 1113 ▲ 713 ▲ 844
Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML >0.2 0 0 60 0 1010 1070 1150 1270 2060	NORML NORML NEG 5 17 0 56 <1 703 958 807 978 2459	NORML NORML NEG 3 30 0 61 0 61 0 847 1150 957 1180 3129	NORML NEG 0 61 0 55 <1 708 1113 ▲ 713 ▲ 844 2398



* - 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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