

History2

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History1

Machine Id 820052 PETERBILT 320 Component Diesel Engine

DUDON OUD 45W/40 / ~ * ! \ . .

PETRO CANADA DURON SHP 15W40 (GAL)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current)
	Sample Number		Client Info		GFL0102204	L
We advise that you check the fuel injection system. The oil change at	Sample Date		Client Info		14 Nov 2023	Ι
the time of sampling has been noted. We recommend an early resample to monitor this condition.	Machine Age	hrs	Client Info		14462	t
	Oil Age	hrs	Client Info		600	T
	Filter Age	hrs	Client Info		600	t
	Oil Changed		Client Info		Changed	L
	Filter Changed		Client Info		Changed	t
	Sample Status				SEVERE	
WEAR	Iron	ppm	ASTM D5185m	>110	30	ſ
	Chromium	ppm	ASTM D5185m	>4	1	t
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	0	L
	Titanium	ppm	ASTM D5185m		<1	t
	Silver	ppm	ASTM D5185m	>2	0	Г
	Aluminum	ppm	ASTM D5185m	>25	6	t
	Lead	ppm	ASTM D5185m	>45	1	T
	Copper	ppm	ASTM D5185m	>85	<1	t
	Tin	ppm	ASTM D5185m	>4	0	I
	Vanadium	ppm	ASTM D5185m		0	t
	White Metal	scalar	*Visual	NONE	NONE	Г
	Yellow Metal	scalar	*Visual	NONE	NONE	t
CONTAMINATION	Silicon	ppm	ASTM D5185m	>30	5	Τ
	Potassium	ppm	ASTM D5185m		17	t
There is a high amount of fuel present in the oil. Tests confirm the	Fuel	%	ASTM D3524	>5	10.9	I
presence of fuel in the oil.	Water		WC Method	>0.2	NEG	t
	Glycol		WC Method		NEG	I
	Soot %	%	*ASTM D7844	>3	0.9	t
	Nitration	Abs/cm	*ASTM D7624	>20	11.9	Г
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	t
	Silt	scalar	*Visual	NONE	NONE	Ι
	Debris	scalar	*Visual	NONE	NONE	t
	Sand/Dirt	scalar	*Visual	NONE	NONE	L
	Appearance	scalar	*Visual	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	I
	Emulsified Water	scalar	*Visual	>0.2	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		42	ľ
	Boron	ppm	ASTM D5185m	0	2	ŀ
The RN result indicates that there is suitable alkalinity remaining in the		1.1				4

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.

Aluminum	ppm	ASTIVI DST85M	>25	6	
Lead	ppm	ASTM D5185m	>45	1	
Copper	ppm	ASTM D5185m	>85	<1	
Tin	ppm	ASTM D5185m	>4	0	
Vanadium	ppm	ASTM D5185m		0	
White Metal	scalar	*Visual	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	
Silicon	ppm	ASTM D5185m	>30	5	
Potassium	ppm	ASTM D5185m	>20	17	
Fuel	%	ASTM D3524	>5	10.9	
Water		WC Method	>0.2	NEG	
Glycol		WC Method		NEG	
Soot %	%	*ASTM D7844	>3	0.9	
Nitration	Abs/cm	*ASTM D7624	>20	11.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	
Silt	scalar	*Visual	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	
Sodium	ppm	ASTM D5185m		42	
Boron	ppm	ASTM D5185m	0	2	
Barium	ppm	ASTM D5185m	0	<1	
Molybdenum	ppm	ASTM D5185m	60	54	
Manganese	ppm	ASTM D5185m	0	0	
Magnesium	ppm	ASTM D5185m	1010	762	
Calcium	ppm	ASTM D5185m	1070	926	
Phosphorus	ppm	ASTM D5185m	1150	835	
Zinc	ppm	ASTM D5185m	1270	1064	
Sulfur	ppm	ASTM D5185m	2060	2711	
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.1	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.2	
Visc @ 100°C	cSt	ASTM D445	15.4	🔺 10.9 🌙	
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