

PROBLEM SUMMARY

Sample Rating Trend



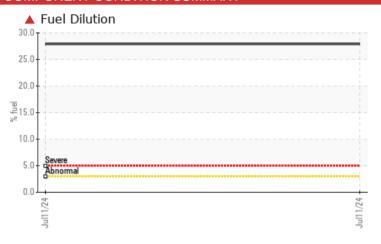


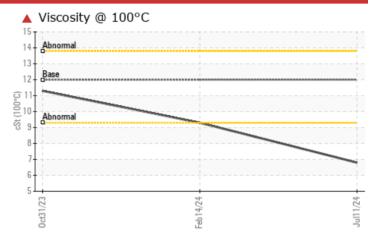
Machine Id

BM-124
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 10W30 (10 GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATI	C TES	T RESULT	S			
Sample Status				SEVERE	NORMAL	NORMAL
Fuel	%	ASTM D3524	>3.0	27.9	<1.0	<1.0
Visc @ 100°C	cSt	ASTM D445	12.00	6.8	9.3	11.3

Customer Id: BLUCHA Sample No.: PCA0130581 Lab Number: 06235591 Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDE	D ACTIONS			
Action	Status	Date	Done By	Description
Resample			?	We recommend an early resample to monitor this condition.
Check Fuel/injector System			?	We advise that you check the fuel injection system.

HISTORICAL DIAGNOSIS

14 Feb 2024 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



31 Oct 2023 Diag: Wes Davis



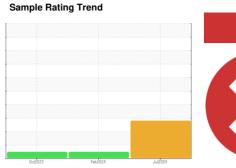


Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT







Machine Id
BM-124
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 10W30 (10 GAL)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

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.

Fluid Condition

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.

Machine Age mls Client Info 208650 188403 172856 Oil Age mls Client Info 20247 15547 11994 Oil Changed Client Info Changed Changed Changed Sample Status SEVERE NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >120 13 11 7 Chromium ppm ASTM D5185m >20 <1 0 <1 Nickel ppm ASTM D5185m >2 <1 0 0 Silver ppm ASTM D5185m >2 <1 0 <1 Aluminum ppm ASTM D5185m >330 2	CAMPLE INCOM	MATION					
Sample Date Client Info 11 Jul 2024 14 Feb 2024 31 Oct 2023		RMATION	method	limit/base	current	history1	•
Machine Age mls							PCA011077
Dil Age	•				11 Jul 2024	14 Feb 2024	31 Oct 2023
Client Info							
Sever Normal N	-	mls			-		
Mater			Client Info		_		
Water WC Method >0.2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 ron ppm ASTM D5185m >120 13 11 7 Chromium ppm ASTM D5185m >20 <1 0 <1 Vickel ppm ASTM D5185m >5 <1 <1 0 Siliver ppm ASTM D5185m >2 <1 0 <1 Aluminum ppm ASTM D5185m >40 2 0 0 Cadd ppm ASTM D5185m >330 2 1 1 1 Init ASTM D5185m >15 <1 <1 <1 </td <td>Sample Status</td> <td></td> <td></td> <td></td> <td>SEVERE</td> <td>NORMAL</td> <td>NORMAL</td>	Sample Status				SEVERE	NORMAL	NORMAL
WEAR METALS	CONTAMINAT	TION	method	limit/base	current	history1	history2
WEAR METALS	Water		WC Method	>0.2	NEG	NEG	NEG
Chromium	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >20 -1 0 <1 Nickel ppm ASTM D5185m >5 <1	WEAR METAL	S	method	limit/base	current	history1	history2
STM D5185m >5	ron	ppm	ASTM D5185m	>120	13	11	7
Titanium	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Silver	Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Aluminum	Titanium	ppm	ASTM D5185m	>2	<1	0	0
Lead ppm ASTM D5185m >40 2 0 0 Copper ppm ASTM D5185m >330 2 1 1 Tin ppm ASTM D5185m >15 <1 <1 <1 <1 Vanadium ppm ASTM D5185m >15 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Silver	ppm	ASTM D5185m	>2	<1	0	<1
Copper ppm ASTM D5185m >330 2 1 1 Tin ppm ASTM D5185m >15 <1	Aluminum	ppm	ASTM D5185m	>20	3	6	3
Tin ppm ASTM D5185m > 15 <1 <1 <1 <1 <1 Coloradia	Lead	ppm	ASTM D5185m	>40	2	0	0
Vanadium ppm ASTM D5185m <1 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 3 0 3 Barium ppm ASTM D5185m 0 <1 0 0 Molybdenum ppm ASTM D5185m 50 48 54 58 Manganese ppm ASTM D5185m 0 0 0 <1 0 Magnesium ppm ASTM D5185m 950 676 838 966 Calcium ppm ASTM D5185m 1050 826 960 1085 Phosphorus ppm ASTM D5185m 995 664 924 1061 Zinc ppm ASTM D5185m 2600 1929 2581 2968 CONTAMINANTS method limit/base current history1	Copper	ppm	ASTM D5185m	>330	2	1	1
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ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 3 0 3 Barium ppm ASTM D5185m 0 <1	Vanadium	ppm	ASTM D5185m		<1	0	0
Boron ppm ASTM D5185m 2 3 0 3 Barium ppm ASTM D5185m 0 <1 0 0 Molybdenum ppm ASTM D5185m 50 48 54 58 Manganese ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 950 676 838 966 Calcium ppm ASTM D5185m 1050 826 960 1085 Phosphorus ppm ASTM D5185m 995 664 924 1061 Zinc ppm ASTM D5185m 1180 911 1081 1288 Sulfur ppm ASTM D5185m 2600 1929 2581 2968 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 12 7 Sodium ppm ASTM D5185m >20 4 5 3 Fuel % ASTM D5185m >20 4 5 3 Fuel % ASTM D5185m >20 4 5 3 Fuel % ASTM D5185m >20 9.6 8.3 7.8 Sulfation Abs/cm *ASTM D7415 >30 19.9 19.2 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/Imm *ASTM D7414 >25 15.4 14.7 14.8	Cadmium	ppm	ASTM D5185m		0	0	0
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Manganese ppm ASTM D5185m 0 0 <1 Magnesium ppm ASTM D5185m 950 676 838 966 Calcium ppm ASTM D5185m 1050 826 960 1085 Phosphorus ppm ASTM D5185m 995 664 924 1061 Zinc ppm ASTM D5185m 1180 911 1081 1288 Sulfur ppm ASTM D5185m 2600 1929 2581 2968 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 12 7 Sodium ppm ASTM D5185m >20 4 5 3 Fuel % ASTM D5185m >20 4 5 3 Fuel % ASTM D5185m >20 4 5 3 Fuel % ASTM D5185m >20 4	Barium	ppm	ASTM D5185m	0	<1	0	0
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Calcium ppm ASTM D5185m 1050 826 960 1085 Phosphorus ppm ASTM D5185m 995 664 924 1061 Zinc ppm ASTM D5185m 1180 911 1081 1288 Sulfur ppm ASTM D5185m 2600 1929 2581 2968 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 12 7 Sodium ppm ASTM D5185m >25 9 7 Potassium ppm ASTM D5185m >20 4 5 3 Fuel % ASTM D5185m >20 4 5 3 Fuel % ASTM D5185m >20 4 0 <1.0	Manganese		ACTM DE195m	0	0	0	<1
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Silicon ppm ASTM D5185m >25 6 12 7 Sodium ppm ASTM D5185m 5 9 7 Potassium ppm ASTM D5185m >20 4 5 3 Fuel % ASTM D3524 >3.0 27.9 <1.0 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 0.4 0.4 0.4 Nitration Abs/cm *ASTM D7624 >20 9.6 8.3 7.8 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 19.2 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.4 14.7 14.8	Magnesium Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1050 995	826 664	838 960 924	1085 1061
Sodium ppm ASTM D5185m 5 9 7 Potassium ppm ASTM D5185m >20 4 5 3 Fuel % ASTM D3524 >3.0 ▲ 27.9 <1.0	Magnesium Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1050 995 1180	826 664 911	838 960 924 1081	1085 1061 1288
Potassium ppm ASTM D5185m >20 4 5 3 Fuel % ASTM D3524 >3.0 ▲ 27.9 <1.0 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 0.4 0.4 0.4 Nitration Abs/cm *ASTM D7624 >20 9.6 8.3 7.8 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 19.2 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.4 14.7 14.8	Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1050 995 1180 2600	826 664 911 1929	838 960 924 1081 2581	1085 1061 1288 2968
Fuel % ASTM D3524 >3.0 ▲ 27.9 <1.0 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 0.4 0.4 0.4 Nitration Abs/cm *ASTM D7624 >20 9.6 8.3 7.8 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 19.2 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.4 14.7 14.8	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	1050 995 1180 2600 limit/base	826 664 911 1929 current	838 960 924 1081 2581 history1	1085 1061 1288 2968 history2
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Sulfation Abs/.1mm *ASTM D7415 >30 19.9 19.2 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.4 14.7 14.8	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	1050 995 1180 2600 limit/base >25 >20 >3.0	826 664 911 1929 current 6 5 4	838 960 924 1081 2581 history1 12 9 5 <1.0	1085 1061 1288 2968 history2 7 7 7 3 <1.0
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.4 14.7 14.8	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm vts ppm ppm ppm	ASTM D5185m ASTM D3524	1050 995 1180 2600 limit/base >25 >20 >3.0	826 664 911 1929 current 6 5 4 27.9 current	838 960 924 1081 2581 history1 12 9 5 <1.0	1085 1061 1288 2968 history2 7 7 7 3 <1.0
Oxidation Abs/.1mm *ASTM D7414 >25 15.4 14.7 14.8	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm ppm ppm vts ppm ppm ppm ppm	ASTM D5185m ASTM D3524	1050 995 1180 2600 limit/base >25 >20 >3.0 limit/base	826 664 911 1929 current 6 5 4 27.9 current 0.4	838 960 924 1081 2581 history1 12 9 5 <1.0 history1 0.4	1085 1061 1288 2968 history2 7 7 7 3 <1.0
	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm NTS ppm ppm ppm %	ASTM D5185m ASTM D7844 *ASTM D7844	1050 995 1180 2600 limit/base >25 >20 >3.0 limit/base >4 >20	826 664 911 1929 current 6 5 4 27.9 current 0.4 9.6	838 960 924 1081 2581 history1 12 9 5 <1.0 history1 0.4 8.3	1085 1061 1288 2968 history2 7 7 7 3 <1.0 history2 0.4 7.8
	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm % Abs/.1mm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D76145	1050 995 1180 2600 limit/base >25 >20 >3.0 limit/base >4 >20 >30	826 664 911 1929 current 6 5 4 27.9 current 0.4 9.6 19.9	838 960 924 1081 2581 history1 12 9 5 <1.0 history1 0.4 8.3 19.2	1085 1061 1288 2968 history2 7 7 7 3 <1.0 history2 0.4 7.8 19.3
	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRA	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415 method	1050 995 1180 2600 limit/base >25 >20 >3.0 limit/base >4 >20 >30 limit/base	826 664 911 1929 current 6 5 4 27.9 current 0.4 9.6 19.9 current	838 960 924 1081 2581 history1 12 9 5 <1.0 history1 0.4 8.3 19.2 history1	1085 1061 1288 2968 history2 7 7 7 3 <1.0 history2 0.4 7.8 19.3



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06235591 Unique Number : 11124425

: PCA0130581

Received : 15 Jul 2024 **Tested** : 16 Jul 2024 Diagnosed

: 16 Jul 2024 - Wes Davis

Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)

BLUE MAX TRUCKING

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