

OIL ANALYSIS REPORT

Sample Rating Trend



Area (30550Z) Walgreens Machine Id [Walgreens] 136A62504 Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

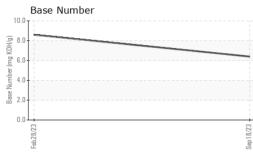
Fluid Condition

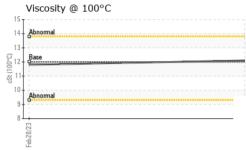
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0094342	PCA0082329	
Sample Date		Client Info		18 Sep 2023	28 Feb 2023	
Machine Age	mls	Client Info		0	329724	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	20	6	
Chromium	ppm	ASTM D5185m	>4	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>25	7	3	
Lead	ppm	ASTM D5185m	>45	<1	<1	
Copper	ppm	ASTM D5185m	>85	4	2	
Tin	ppm	ASTM D5185m	>4	- <1	- <1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method				history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1 <1	history2
	ppm ppm					
Boron		ASTM D5185m	2	0	<1	
Boron Barium	ppm	ASTM D5185m ASTM D5185m	2 0 50	0 0	<1 0	
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50	0 0 67	<1 0 59	
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0	0 0 67 <1	<1 0 59 <1	
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950	0 0 67 <1 924	<1 0 59 <1 871	
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050	0 0 67 <1 924 1194	<1 0 59 <1 871 1103	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995	0 0 67 <1 924 1194 1021	<1 0 59 <1 871 1103 976	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180	0 0 67 <1 924 1194 1021 1275	<1 0 59 <1 871 1103 976 1176	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600	0 0 67 <1 924 1194 1021 1275 3223	<1 0 59 <1 871 1103 976 1176 3003	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600	0 0 67 <1 924 1194 1021 1275 3223 current	<1 0 59 <1 871 1103 976 1176 3003 history1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	2 0 50 950 1050 995 1180 2600 Limit/base >30	0 0 67 <1 924 1194 1021 1275 3223 current 7	<1 0 59 <1 871 1103 976 1176 3003 history1 5	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600 Limit/base >30	0 0 67 <1 924 1194 1021 1275 3223 current 7 <1	<1 0 59 <1 871 1103 976 1176 3003 history1 5 0	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600 limit/base >30	0 0 67 <1 924 1194 1021 1275 3223 current 7 <1 4	<1 0 59 <1 871 1103 976 1176 3003 history1 5 0 1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 imit/base >30 >20 imit/base	0 0 67 <1 924 1194 1021 1275 3223 current 7 <1 4	<1 0 59 <1 871 1103 976 1176 3003 history1 5 0 1 1 history1	 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 imit/base >30 >20 imit/base	0 0 67 <1 924 1194 1021 1275 3223 current 7 <1 4 current 0.6	<1 0 59 <1 871 1103 976 1176 3003 history1 5 0 1 1 <i>history1</i> 0.5	 history2 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600 limit/base >30 20 limit/base >33 >20	0 0 67 <1 924 1194 1021 1275 3223 current 7 <1 4 current 0.6 9.5	<1 0 59 <1 871 1103 976 1176 3003 history1 5 0 1 5 0 1 history1 0.5 8.3	 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415	2 0 50 950 1050 995 1180 2600 imit/base >30 imit/base >3 20 >3	0 0 67 <1 924 1194 1021 1275 3223 current 7 <1 4 current 0.6 9.5 21.6	<1 0 59 <1 871 1103 976 1176 3003 history1 5 0 1 5 0 1 1 <i>history1</i> 0.5 8.3 19.2	 history2 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415	2 0 50 0 950 1050 995 1180 2600 imit/base >30 imit/base >3 20 >30 imit/base	0 0 67 <1 924 1194 1021 1275 3223 <i>current</i> 7 <1 4 <i>current</i> 0.6 9.5 21.6	<1 0 59 <1 871 1103 976 1176 3003 history1 5 0 1 history1 0.5 8.3 19.2 history1	 history2 history2 history2 history2



OIL ANALYSIS REPORT





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPE	ERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	12.1	11.8	
GRAPHS						
Ferrous Alloys						
iron						
essesses chromium		and the second sec				
		and the second se				
		/				
5 - mickel						
	/					
5	/					
5 - mickel	/					
5 - nickel						
5 - nickel			528			
5 - nickel			Sep18/23			
5 - nickel	ls		Sep 18/23			
Non-ferrous Meta	ls		Sep 18/23			
Non-ferrous Meta	ls		Sep18/23			
5 - nickel	ls		Sep18/23			
Non-ferrous Meta	lls		Sep 18/23			
Non-ferrous Meta	ls		Sep 18/23			
Non-ferrous Meta	ls		Sep 18/23			
Non-ferrous Meta	ls		Sep 18/23			
Non-ferrous Meta	lls		Sap 18/23			
Non-ferrous Meta	lls					
Non-ferrous Meta	lls					
Non-ferrous Meta			Sep 18/23			
Non-ferrous Meta			Sep 18/23	Base Number		
Non-ferrous Meta			E200 600 9.0	Base Number	-	
Non-ferrous Meta			9.0 8.0			
Non-ferrous Meta			E200 600 9.0			

) Jaquan (10 3.0 ase 8 2.0 1.0 0.0

Feb28/23

Sep18/23 -

: 19 Sep 2023

: 20 Sep 2023



Unique Number : 10656323 Diagnostician : Wes Davis Test Package : FLEET Certificate L2367 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)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Diagnosed

St (100°C)

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Laboratory Sample No.

Lab Number

Feb28/23

: PCA0094342

: 05955110

Transervice - Shop 1363 - Berkeley-Orlando

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2455 Premier Row

Contact: James Bennett

Orlando, FL

US 32809

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