

(N/A) Walgreens - Yard Horse [Walgreens - Yard Horse] 136A81256 Componen

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.



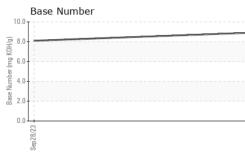
Sample Rating Trend

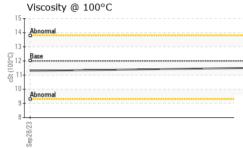


			Sep2023	Oct2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0106596	PCA0094971	
Sample Date		Client Info		27 Oct 2023	28 Sep 2023	
Machine Age	hrs	Client Info		9819	9671	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample 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	>100	3	6	
Chromium	ppm	ASTM D5185m	>20	0	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	<1	1	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>330	0	0	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 40	history1 2	history2
	ppm ppm					
Boron		ASTM D5185m	2	40	2	
Boron Barium	ppm	ASTM D5185m ASTM D5185m	2 0 50	40 0	2 0	
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50	40 0 63	2 0 59	
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0	40 0 63 0	2 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	40 0 63 0 903	2 0 59 <1 946	
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	40 0 63 0 903 1123	2 0 59 <1 946 1058	
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	40 0 63 0 903 1123 1063	2 0 59 <1 946 1058 1064	
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	40 0 63 0 903 1123 1063 1279	2 0 59 <1 946 1058 1064 1255	
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 ASTM D5185m	2 0 50 950 1050 995 1180 2600	40 0 63 0 903 1123 1063 1279 3136	2 0 59 <1 946 1058 1064 1255 3121	
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 ASTM D5185m	2 0 50 950 1050 995 1180 2600	40 0 63 0 903 1123 1063 1279 3136 current	2 0 59 <1 946 1058 1064 1255 3121 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 ASTM D5185m	2 0 50 950 1050 995 1180 2600 limit/base >25	40 0 63 0 903 1123 1063 1279 3136 current 2	2 0 59 <1 946 1058 1064 1255 3121 history1 2	 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 method ASTM D5185m	2 0 50 950 1050 995 1180 2600 limit/base >25	40 0 63 0 903 1123 1063 1279 3136 current 2 <	2 0 59 <1 946 1058 1064 1255 3121 history1 2 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 >25 >20	40 0 63 0 903 1123 1063 1279 3136 current 2 < <1 1	2 0 59 <1 946 1058 1064 1255 3121 history1 2 0 0 0	 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 50 950 1050 995 1180 2600 imit/base >25 >20 imit/base	40 0 63 0 903 1123 1063 1279 3136 current 2 <1 1 1	2 0 59 <1 946 1058 1064 1255 3121 history1 2 0 0 0 0	 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 50 950 1050 995 1180 2600 imit/base >25 >20 imit/base	40 0 63 0 903 1123 1063 1279 3136 <u>current</u> 2 <1 1 1 <u>current</u> 0.1	2 0 59 <1 946 1058 1064 1255 3121 history1 2 0 0 0 0 history1 0.2	 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 <i>limit/base</i> >25 >20 <i>limit/base</i> >3 >20	40 0 63 0 903 1123 1063 1279 3136 current 2 <1 1 current 0.1 5.3	2 0 59 <1 946 1058 1064 1255 3121 history1 2 0 0 0 <i>history1</i> 0.2 6.3	 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 ppm ppm	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 i mit/base >25 20 i mit/base >3 >20 >30	40 0 63 0 903 1123 1063 1279 3136 current 2 <1 1 current 0.1 5.3 17.8	2 0 59 <1 946 1058 1064 1255 3121 history1 2 0 0 0 0 history1 0.2 6.3 17.7	 history2 history2 history2



OIL ANALYSIS REPORT





VISUAL		method				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 Wa		*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PF	ROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.5	11.3	
GRAPHS						
Ferrous Allo	oys					
iron						
8 - nickel						
6-						
mqq						
4						
2						
2/8						
p2(\$27/23			
Sep28/23			0ct27/23			
Non-ferrous	s Metals		0ct27/23			
Non-ferrous			0ct27/23			
Non-ferrous			0ct27/23			
Non-ferrous			0ct27/23			
Non-ferrous			0ct27/23			
Non-ferrous			0ct21/23			
Non-ferrous			0ct27/23			
Non-ferrous			0ct27/23			
Non-ferrous						
Non-ferrous						
Non-ferrous			0et21723			
Non-ferrous]			Base Number		
Non-ferrous]			Base Number		
Non-ferrous]		0.etj.)/33 1.8			
Non-ferrous]		0.etj.)/33 1.8			
Non-ferrous]		1.9 004(9) 004(9)			
Non-ferrous]		1.9 004(9) 004(9)			
Non-ferrous]		9.1 8.1 (6)HOX XOU- 15.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9			
Non-ferrous]		0.etj.)/33 1.8			
Non-ferrous]		9.1 8.1 (6)HOX XOU- 15.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9			
Non-ferrous]		1.9 1.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1			
Non-ferrous]		9.1 8.1 (a) HOY BOD 10.1 1.1 (b) HOY BOD 10.1 1.1			

: 14 Nov 2023



Unique Number : 10737697 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)

Diagnosed

Lab Number

: 06003935

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