

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Machine Id 136127

Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (--- 0

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

▲ Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORM Sample Number Sample Date Machine Age						
Sample Number Sample Date				Jan2024		
Sample Number Sample Date	MATION	method	limit/base	current	history1	history2
Sample Date		Client Info		PCA0110652		
•		Client Info		28 Jan 2024		
IVIACNINA AMA	mls	Client Info		2515		
Oil Age	mls	Client Info		2515		
Oil Changed	11113	Client Info		Changed		
Sample Status		Ciletit iiiio		ATTENTION		
·	ION		11 10 11			
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	10		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	6		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	53		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	123		
Barium	ppm	ASTM D5185m	0	27		
Molybdenum	ppm	ASTM D5185m	50	135		
Manganese	ppm	ASTM D5185m	0	9		
	ppm	ASTM D5185m	950			
Magnesium	ppiii			345		
	ppm	ASTM D5185m	1050	345 1145		
Calcium	ppm	ASTM D5185m ASTM D5185m	1050 995			
Calcium Phosphorus	ppm ppm			1145		
Calcium Phosphorus Zinc	ppm	ASTM D5185m	995	1145 666		
Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m	995 1180	1145 666 724		
Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	995 1180 2600	1145 666 724 2627		
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	995 1180 2600 limit/base	1145 666 724 2627 current	 history1	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	995 1180 2600 limit/base	1145 666 724 2627 current	 history1	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm TS ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	995 1180 2600 limit/base >25	1145 666 724 2627 current 44	 history1	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel	ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524	995 1180 2600 limit/base >25 >20	1145 666 724 2627 current 44 0	 history1 	history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524	995 1180 2600 limit/base >25 >20 >5	1145 666 724 2627 current 44 0 5 1.8	 history1 history1	history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm ppm TS ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844	995 1180 2600 limit/base >25 >20 >5 limit/base >3	1145 666 724 2627 current 44 0 5 1.8 current	 history1 	history2 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm TS ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624	995 1180 2600 limit/base >25 >20 >5 limit/base >3 >20	1145 666 724 2627 current 44 0 5 1.8 current 0 6.6	history1 history1	history2 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D76145	995 1180 2600 limit/base >25 >20 >5 limit/base >3 >20 >30	1145 666 724 2627 current 44 0 5 1.8 current 0 6.6 17.3	history1 history1 history1	history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRAE	ppm ppm ppm ppm ppm ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	995 1180 2600 limit/base >25 >20 >5 limit/base >3 >20	1145 666 724 2627 current 44 0 5 1.8 current 0 6.6	history1 history1	history2 history2 history2
Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D76145	995 1180 2600 limit/base >25 >20 >5 limit/base >3 >20 >30	1145 666 724 2627 current 44 0 5 1.8 current 0 6.6 17.3	history1 history1 history1	history2 history2 history2



OIL ANALYSIS REPORT







Laboratory Sample No.

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

: PCA0110652 Lab Number : 06084531

Unique Number : 10871976

Diagnosed

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

Received

Tested

: 09 Feb 2024

: 13 Feb 2024

: 13 Feb 2024 - Jonathan Hester

* - 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)

MILLER TRUCK LEASING #123

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