

OIL ANALYSIS REPORT

RT

Sample Rating Trend

NORMAL



Machine Id **631681**

Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

Metal levels are typical for a new component breaking in.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Fluid Condition

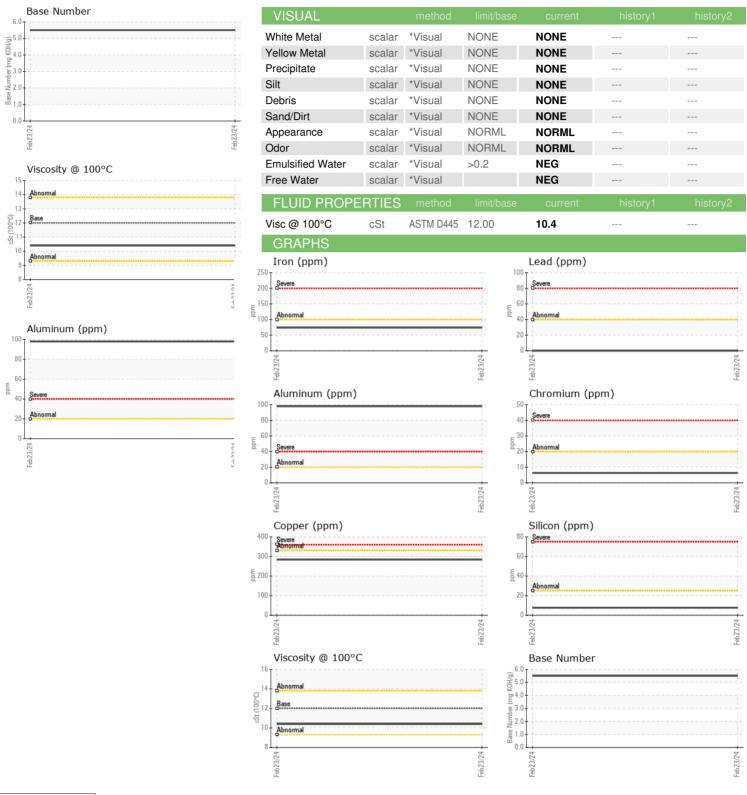
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

GAL)				Feb2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0119009		
Sample Date		Client Info		23 Feb 2024		
Machine Age	mls	Client Info		49068		
Oil Age	mls	Client Info		49068		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	74		
Chromium	ppm	ASTM D5185m	>20	6		
Nickel	ppm	ASTM D5185m	>4	1		
Titanium	ppm	ASTM D5185m		2		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	98		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	284		
Tin	ppm	ASTM D5185m	>15	6		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	21		
Barium	ppm	ASTM D5185m	0	<1		
Molybdenum	ppm	ASTM D5185m	50	43		
Manganese	ppm	ASTM D5185m	0	5		
Magnesium	ppm	ASTM D5185m	950	584		
Calcium	ppm	ASTM D5185m	1050	1668		
Phosphorus	ppm	ASTM D5185m	995	840		
Zinc	ppm	ASTM D5185m	1180	1002		
Sulfur	ppm	ASTM D5185m	2600	1990		
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8		
Sodium	ppm	ASTM D5185m		7		
Potassium	ppm	ASTM D5185m	>20	274		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.3		
Nitration	Abs/cm	*ASTM D7624	>20	12.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.5		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.6		
Base Number (BN)	mg KOH/g	ASTM D2896		5.5		

Contact/Location: ROSTY VITER - MILPHINE



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Certificate L2367

Laboratory Sample No.

Lab Number : 06107103 Unique Number: 10910600

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0119009 Received **Tested** Diagnosed

Test Package : MOB 1 (Additional Tests: TBN)

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. **MILLER TRUCK LEASING #118**

2196 BENNETT ROAD PHILADELPHIA, PA US 19116

Contact: ROSTY VITER rviter@millertransgroup.com

T: (215)552-9832 F: (215)552-9892

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: ROSTY VITER - MILPHINE

: 04 Mar 2024

: 04 Mar 2024

: 06 Mar 2024 - Jonathan Hester