

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



BM-188

Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (10 G

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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. No other contaminants were detected in the oil.

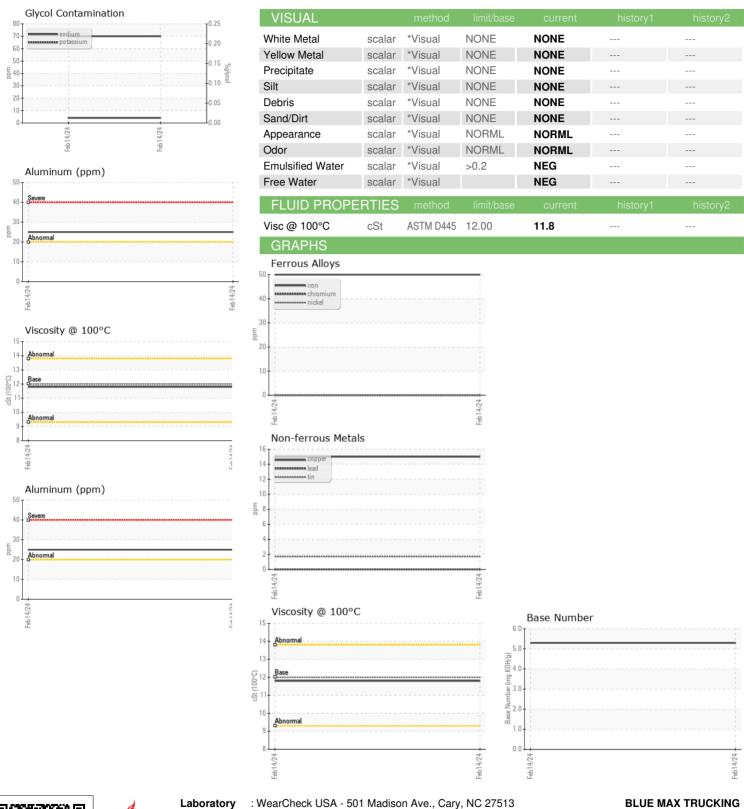
Fluid Condition

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

GAL)				Feb2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0114022		
Sample Date		Client Info		14 Feb 2024		
Machine Age	mls	Client Info		16635		
Oil Age	mls	Client Info		16635		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	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	50		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	25		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	15		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	28		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	50	6		
Manganese	ppm	ASTM D5185m	0	2		
Magnesium	ppm	ASTM D5185m	950	760		
Calcium	ppm	ASTM D5185m	1050	1317		
Phosphorus	ppm	ASTM D5185m	995	744		
Zinc	ppm	ASTM D5185m	1180	859		
Sulfur	ppm	ASTM D5185m	2600	2852		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	70		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4		
Nitration	Abs/cm	*ASTM D7624	>20	10.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4		
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2		
Base Number (BN)	mg KOH/g	ASTM D2896		5.3		



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Certificate L2367

Report Id: BLUCHA [WUSCAR] 06097552 (Generated: 02/24/2024 13:41:28) Rev: 1

Laboratory Sample No.

: PCA0114022 Lab Number : 06097552

Unique Number: 10890405 Test Package : FLEET

Received : 22 Feb 2024 **Tested**

: 23 Feb 2024 : 24 Feb 2024 - Don Baldridge Diagnosed

BLUE MAX TRUCKING 1015 E. WESTINGHOUSE BLVD.

CHARLOTTE, NC US 28273

Contact: Jody Greer jgreer@bluemaxtrucking.com

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. T: (980)225-9968 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (704)588-2901

Submitted By: Jody Greer