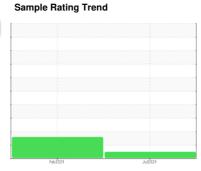


# **OIL ANALYSIS REPORT**

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NORMAL



Machine Id BM-218

Diesel Engine

PETRO CANADA DURON SHP 10W30 (10 GAL)

## DIAGNOSIS

### Recommendation

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.

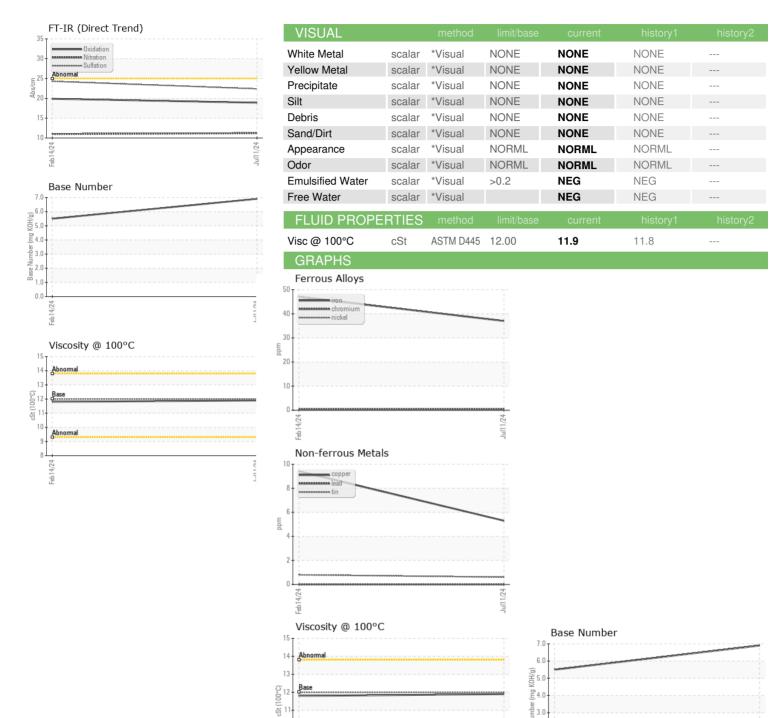
## **Fluid Condition**

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

GAL)			Feb 2024	Jui2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0122190	PCA0110790	
Sample Date		Client Info		11 Jul 2024	14 Feb 2024	
Machine Age	mls	Client Info		48285	23092	
Oil Age	mls	Client Info		25193	23092	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	37	47	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	1	<1	
Aluminum	ppm	ASTM D5185m	>20	17	30	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>330	5	9	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	3	20	
Barium	ppm	ASTM D5185m	0	<1	2	
Molybdenum	ppm	ASTM D5185m	50	64	4	
Manganese	ppm	ASTM D5185m	0	<1	2	
Magnesium	ppm	ASTM D5185m	950	998	726	
Calcium	ppm	ASTM D5185m	1050	1249	1225	
Phosphorus	ppm	ASTM D5185m	995	1008	708	
Zinc	ppm	ASTM D5185m	1180	1317	835	
Sulfur	ppm	ASTM D5185m	2600	2913	2704	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	14	<b>△</b> 32	
Sodium	ppm	ASTM D5185m		0	3	
Potassium	ppm	ASTM D5185m	>20	61	83	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	11.2	11.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	24.3	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	19.9	
Base Number (BN)	mg KOH/g	ASTM D2896		6.9	5.5	



# **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. Lab Number : 06235576

: PCA0122190 Unique Number : 11124410 Test Package : FLEET

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

Feb14/24

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Jul 2024 **Tested** 

: 15 Jul 2024 Diagnosed : 15 Jul 2024 - Wes Davis

0.0

Feb14/24

**BLUE MAX TRUCKING** 1015 E. WESTINGHOUSE BLVD.

CHARLOTTE, NC US 28273

Contact: Jody Greer jgreer@bluemaxtrucking.com T: (980)225-9968

\* - 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)

F: (704)588-2901

Submitted By: Jody Green