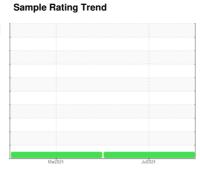


# **OIL ANALYSIS REPORT**



**NORMAL** 



Machine Id **BM-222** 

**Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (10 G

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

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.

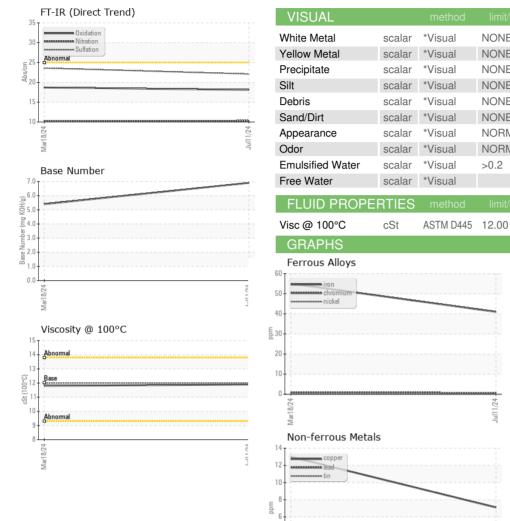
## **Fluid Condition**

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

GAL)			Mar2024	Jul2024		
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
Sample Number	.,, (1101)	Client Info		PCA0130568	PCA0110724	
Sample Date		Client Info		11 Jul 2024	18 Mar 2024	
Machine Age	mls	Client Info		44064	20960	
Oil Age	mls	Client Info		23104	20960	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATI	ON	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 METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	41	55	
Chromium	ppm	ASTM D5185m	>20	<1	1	
Nickel	ppm	ASTM D5185m	>4	0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	1	0	
Aluminum	ppm	ASTM D5185m	>20	25	22	
Lead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	7	13	
Tin	ppm	ASTM D5185m	>15	<1	1	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	3	34	
Barium	ppm	ASTM D5185m	0	<1	2	
Molybdenum	ppm	ASTM D5185m	50	62	10	
Manganese	ppm	ASTM D5185m	0	<1	2	
Magnesium	ppm	ASTM D5185m	950	991	833	
Calcium	ppm	ASTM D5185m	1050	1215	1470	
Phosphorus	ppm	ASTM D5185m	995	996	877	
Zinc	ppm	ASTM D5185m	1180	1311	963	
Sulfur	ppm	ASTM D5185m	2600	2845	3840	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12	19	
Sodium	ppm	ASTM D5185m		0	3	
Potassium	ppm	ASTM D5185m	>20	79	67	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	10.3	10.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	23.6	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	18.7	
Base Number (BN)	mg KOH/g	ASTM D2896		6.9	5.4	



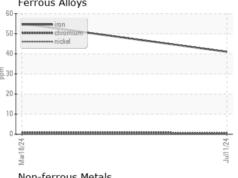
# **OIL ANALYSIS REPORT**

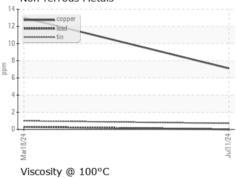


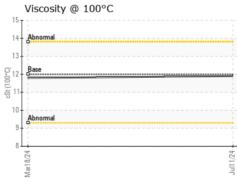
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPE	RTIFS	method	limit/base	current	historv1	historv2

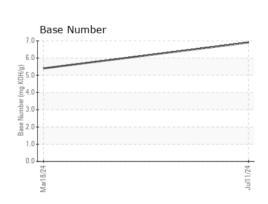
11.9

11.8













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06235568 Unique Number : 11124402

: PCA0130568 Test Package : FLEET

Received : 15 Jul 2024 **Tested** : 16 Jul 2024

Diagnosed : 16 Jul 2024 - Wes Davis **BLUE MAX TRUCKING** 

1015 E. WESTINGHOUSE BLVD. CHARLOTTE, NC US 28273

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

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)

F: (704)588-2901