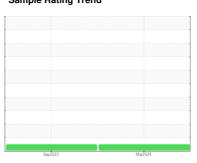


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



BM-230

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

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. There is no indication of any contamination in the oil.

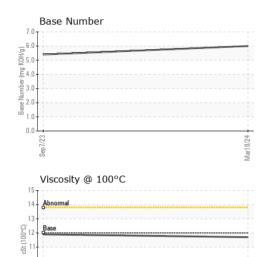
Fluid Condition

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

GAL)			Sep2023	Mar ² 024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0103108	PCA0103164	
Sample Date		Client Info		18 Mar 2024	07 Sep 2023	
Machine Age	hrs	Client Info		1954	1004	
Oil Age	hrs	Client Info		950	1004	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
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	42	64	
Chromium	ppm	ASTM D5185m	>20	1	1	
Nickel	ppm	ASTM D5185m	>4	<1	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	17	54	
Lead	ppm	ASTM D5185m	>40	<1	<1	
Copper	ppm	ASTM D5185m	>330	6	13	
Tin	ppm	ASTM D5185m	>15	1	2	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	5	18	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	50	61	1	
Manganese	ppm	ASTM D5185m	0	1	3	
Magnesium	ppm	ASTM D5185m	950	977	871	
Calcium	ppm	ASTM D5185m	1050	1206	1594	
Phosphorus	ppm	ASTM D5185m	995	1019	777	
Zinc	ppm	ASTM D5185m	1180	1223	914	
Sulfur	ppm	ASTM D5185m	2600	3071	3876	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12	15	
Sodium	ppm	ASTM D5185m		1	6	
Potassium	ppm	ASTM D5185m	>20	48	168	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	10.4	11.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	24.2	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3	19.7	
Base Number (BN)	mg KOH/g	ASTM D2896		6.0	5.4	



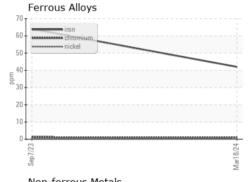
OIL ANALYSIS REPORT



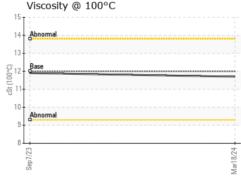
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	

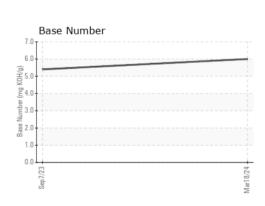
L LLOID PROPI	ERITES	method			riistory i	History2
Visc @ 100°C	cSt	ASTM D445	12.00	11.7	11.9	

GRAPHS



4 copper	
2 - management lead	
0 second tin	
8	
0	
6+	
4	
2	
	·
0 1	
Sep1/23	
S	









Laboratory Sample No.

Lab Number : 06129151 Unique Number : 10943302

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0103108

Diagnosed Test Package : FLEET

Received : 26 Mar 2024 **Tested** : 01 Apr 2024

: 01 Apr 2024 - Wes Davis

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 F: (704)588-2901

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

Submitted By: Charleston Shop - Joe Nuzzolese