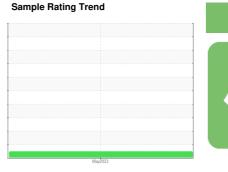


OIL ANALYSIS REPORT

BD SHOP 200292

Component **Diesel Engine**

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





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.

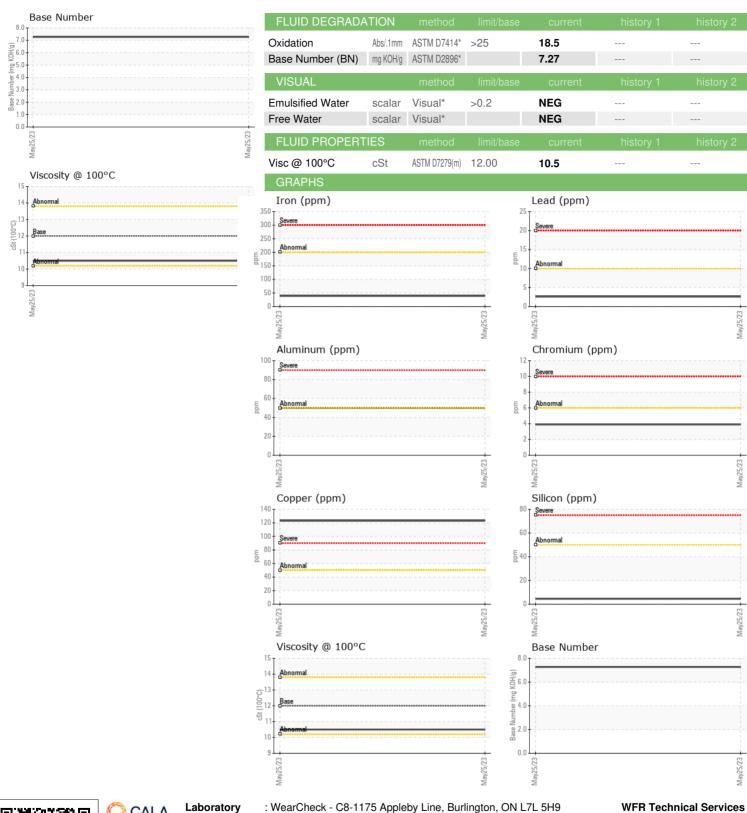
Fluid Condition

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

GAL)				May2023		
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		WC0814920		
Sample Date		Client Info		25 May 2023		
Machine Age	kms	Client Info		112952		
Oil Age	kms	Client Info		59345		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	V	method	limit/base	current	history 1	history 2
Fuel		WC Method	>3.0	<1.0		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185(m)	>200	39		
Chromium	ppm	ASTM D5185(m)	>6	4		
Nickel	ppm	ASTM D5185(m)	>3	<1		
Titanium	ppm	ASTM D5185(m)	>2	<1		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>50	50		
Lead	ppm	ASTM D5185(m)	>10	3		
Copper	ppm	ASTM D5185(m)	>50	123		
Tin	ppm	ASTM D5185(m)	>6	2		
Antimony	ppm	ASTM D5185(m)		<1		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185(m)	2	6		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	50	58		
Manganese	ppm	ASTM D5185(m)	0	1		
Magnesium	ppm	ASTM D5185(m)	950	921		
Calcium	ppm	ASTM D5185(m)	1050	1267		
Phosphorus	ppm	ASTM D5185(m)	995	1004		
Zinc	ppm	ASTM D5185(m)	1180	1128		
Sulfur	ppm	ASTM D5185(m)	2600	1935		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	;	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m)	>50	4		
Sodium	ppm	ASTM D5185(m)		3		
Potassium	ppm	ASTM D5185(m)	>20	108		
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	ASTM D7844*	>3	0.5		
Nitration	Abs/cm	ASTM D7624*	>20	8.6		
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.2		



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number Test Package : MOB 2

: 02559358

To discuss this sample report, contact Customer Service at 1-800-268-2131.

: WC0814920 : 5580398

Received Diagnosed Diagnostician

: 25 May 2023 : 26 May 2023

: Wes Davis

5389 Riverside Drive Burlington, ON CA L7L 3Y1 Contact: William Ridley

wfr.technical.services@gmail.com T:

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

F: