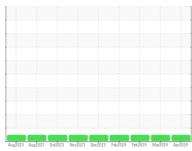


# **OIL ANALYSIS REPORT**

## Sample Rating Trend





Area
BD SHOP
Machine of SHOP
200287
Component
Diesel Engine

PETRO CANADA DURON SHP 10W30 (40 LTR)

## 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.

.in)		Augzoza Auj	g2023 002023 100V2023	Dec2023 Feb2024 Feb2024 Mar20	or represent	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date		Client Info		WC0926303 05 Apr 2024	WC0888908 16 Mar 2024	WC0888894 05 Feb 2024
Machine Age	kms	Client Info		199644	193761	181123
Oil Age	kms	Client Info		18520	12637	58589
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	14	12	33
Chromium	ppm	ASTM D5185(m)	>6	<1	<1	2
Nickel	ppm	ASTM D5185(m)	>3	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>50	4	4	11
Lead	ppm	ASTM D5185(m)	>10	0	<1	<1
Copper	ppm	ASTM D5185(m)	>50	28	25	43
Γin	ppm	ASTM D5185(m)	>6	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	5	5	3
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	59	59	62
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	950	957	945	981
Calcium	ppm	ASTM D5185(m)	1050	1066	1086	1145
Phosphorus	ppm	ASTM D5185(m)	995	973	1019	976
Zinc	ppm	ASTM D5185(m)	1180	1168	1145	1193
Sulfur	ppm	ASTM D5185(m)	2600	2378	2628	1974
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	2	3	5
Sodium	ppm	ASTM D5185(m)		2	1	2
Potassium	ppm	ASTM D5185(m)	>20	7	6	26
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.4	0.3	0.8
Vitration	Abs/cm	ASTM D7624*	>20	6.6	6.1	9.0
Nitration(Diff)	Abs/cm	ASTM E2412*	< 25	4.9	3.7	10.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.3	19.1	21.7
Sulfation(Diff)	Abs/cm	ASTM E2412*		2.3	1.6	6

Submitted By: William Ridley



# **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number : 02627185

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0926303

Unique Number : 5760317

Received **Tested** Diagnosed

: 08 Apr 2024 : 09 Apr 2024

: 09 Apr 2024 - Kevin Marson

Test Package : MOB 2 ( Additional Tests: FT-IR(Diff) ) To discuss this sample report, contact Customer Service at 1-800-268-2131.

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.

**WFR Technical Services** 

5389 Riverside Drive Burlington, ON CA L7L 3Y1 Contact: William Ridley wfr.technical.services@gmail.com

> T: F:

Submitted By: William Ridley