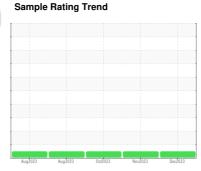


OIL ANALYSIS REPORT

BD SHOP
Machine Id
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.

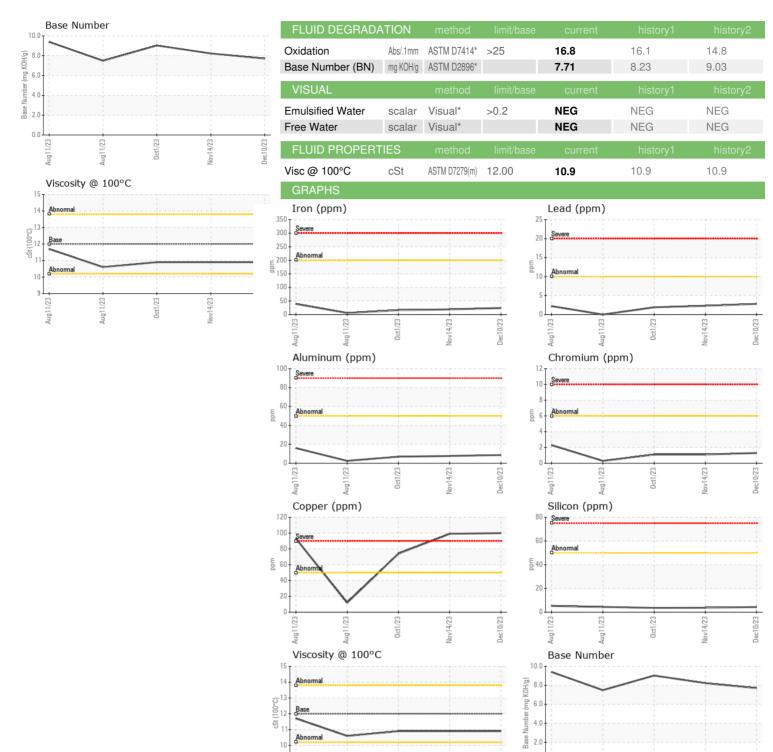
Fluid Condition

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

Aug2023 Aug2023 0x2023 Nov2023 0x2023						
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864706	WC0864688	WC0852040
Sample Date		Client Info		10 Dec 2023	14 Nov 2023	01 Oct 2023
Machine Age	kms	Client Info		169693	151919	139746
Oil Age	kms	Client Info		47160	29386	17233
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	l	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	24	19	16
Chromium	ppm	ASTM D5185(m)	>6	1	1	1
Nickel	ppm	ASTM D5185(m)	>3	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>50	9	8	7
Lead	ppm	ASTM D5185(m)	>10	3	2	2
Copper	ppm	ASTM D5185(m)	>50	100	99	74
Tin	ppm	ASTM D5185(m)	>6	<1	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	4	4	4
Barium	ppm	ASTM D5185(m)	0	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	50	61	58	63
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	950	967	949	996
Calcium	ppm	ASTM D5185(m)	1050	1114	1076	1119
Phosphorus	ppm	ASTM D5185(m)	995	958	974	1027
Zinc	ppm	ASTM D5185(m)	1180	1193	1158	1235
Sulfur	ppm	ASTM D5185(m)	2600	2022	2075	2401
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	4	4	4
Sodium	ppm	ASTM D5185(m)		2	2	2
Potassium	ppm	ASTM D5185(m)	>20	21	19	17
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.6	0.4	0.3
Nitration	Abs/cm	ASTM D7624*	>20	8.2	7.8	6.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.5	20.4	19.7



OIL ANALYSIS REPORT







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

: 02602220

1/23

: WC0864706 : 5695305

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 11 Dec 2023 : 14 Dec 2023 Diagnosed

0.0

Diagnostician : Wes Davis

Nov14/23

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

Nov14/23

Contact: William Ridley wfr.technical.services@gmail.com

> T: F:

Submitted By: William Ridley