

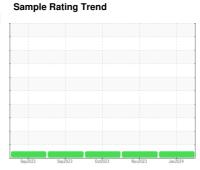
OIL ANALYSIS REPORT



BD SHOP
Machine Id
200295
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.

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0888935	WC0864692	WC0864685
Sample Date		Client Info		05 Jan 2024	23 Nov 2023	22 Oct 2023
Machine Age	kms	Client Info		163043	153331	143002
Oil Age	kms	Client Info		40740	31028	20679
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	V	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)	>120	20	17	11
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>15	8	7	2
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>3	1	1	<1
Aluminum	ppm	ASTM D5185(m)	>20	5	4	3
Lead	ppm	ASTM D5185(m)	>40	2	2	1
Copper	ppm	ASTM D5185(m)	>330	51	43	26
Tin	ppm	ASTM D5185(m)	>15	1	<1	<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	2	2	2
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	50	60	61	60
Manganese	ppm	ASTM D5185(m)	0	<1	<1	0
Magnesium	ppm	ASTM D5185(m)	950	957	989	977
Calcium	ppm	ASTM D5185(m)	1050	1090	1102	1072
Phosphorus	ppm	ASTM D5185(m)	995	987	996	1001
Zinc	ppm	ASTM D5185(m)	1180	1184	1201	1179
Sulfur	ppm	ASTM D5185(m)	2600	2585	2488	2509
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	5	4
Sodium	ppm	ASTM D5185(m)		2	2	2
Potassium	ppm	ASTM D5185(m)	>20	10	7	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.3	0.2	0.1
Nitration	Abs/cm	ASTM D7624*	>20	9.9	8.8	7.1
Nitration(Diff)	Abs/cm	ASTM D7624*		1.4		
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.1	20.4	19.3
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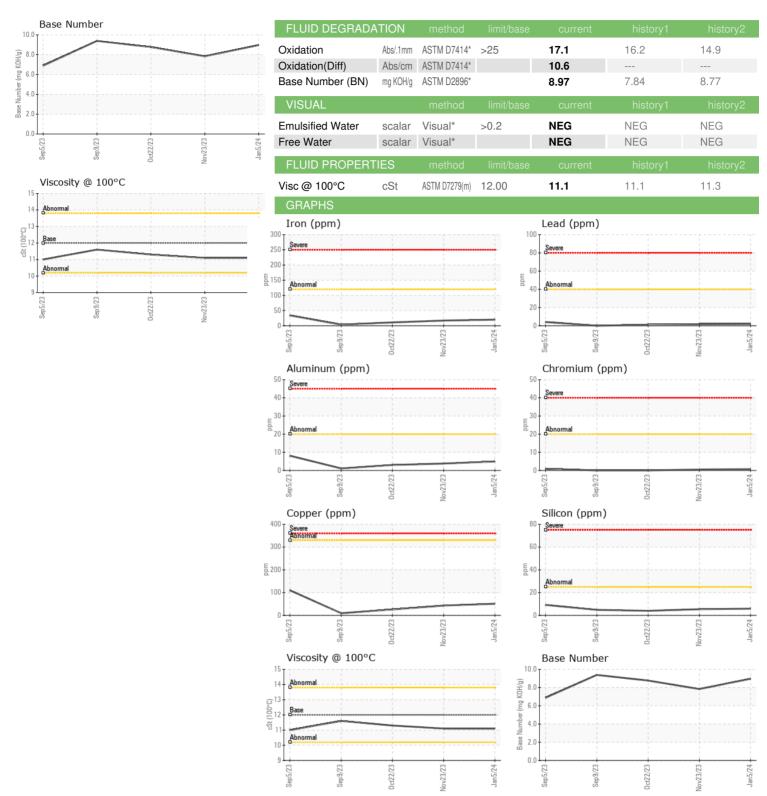
4.9

Sulfation(Diff)

Abs/cm ASTM D7415*



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0888935

: 02606896 : 5707982

Recieved Diagnosed

: 09 Jan 2024 Diagnostician : Kevin Marson

: 08 Jan 2024

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

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