

OIL ANALYSIS REPORT

BD SHOP 200280

Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (40 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

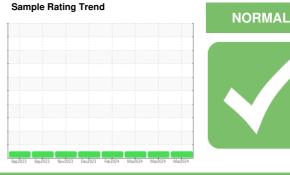
All component wear rates are normal.

Contamination

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.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0888916	WC0888920	WC0888919
Sample Date		Client Info		28 Mar 2024	24 Mar 2024	22 Mar 2024
Machine Age	kms	Client Info		122675	324283	324282
Oil Age	kms	Client Info		1	1	63065
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	nnm	ASTM D5185(m)	>100	2	7	45
Chromium	ppm ppm	ASTM D5185(m)		2	0	2
Nickel	ppm	ASTM D5185(m) ASTM D5185(m)	>20	0	0	<1
Titanium	ppm	ASTM D5185(m)	77	0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)		2	3	14
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	<1	5	34
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Antimony	ppm	ASTM D5185(m)	>10	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	ppm	method	limit/base	-	history1	history2
				current		
Boron	ppm	ASTM D5185(m)	2	4	0	0
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	54	58	65
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	950	932	954	1020
Calcium	ppm	ASTM D5185(m)	1050	992	1033	1138
Phosphorus	ppm	ASTM D5185(m)	995	962	951	941
Zinc	ppm	ASTM D5185(m)	1180	1122	1140	1221
Sulfur	ppm	ASTM D5185(m)	2600	2508	2388	2018
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	2	4
Sodium	ppm	ASTM D5185(m)	00	<1	1	2
Potassium	ppm	ASTM D5185(m)	>20	<1	3	25
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0.1	1.2
Nitration	Abs/cm	ASTM D7624*	>20	4.3	5.2	11.2
Nitration(Diff)	Abs/cm	ASTM E2412*		0.7	1.8	16.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.7	18.1	23.2
O 14 11 (D140)						

0.4

Sulfation(Diff)

Abs/cm ASTM E2412*

8.7

0

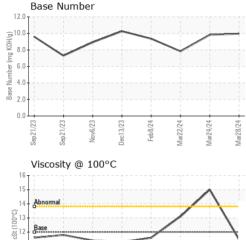


Abnorma

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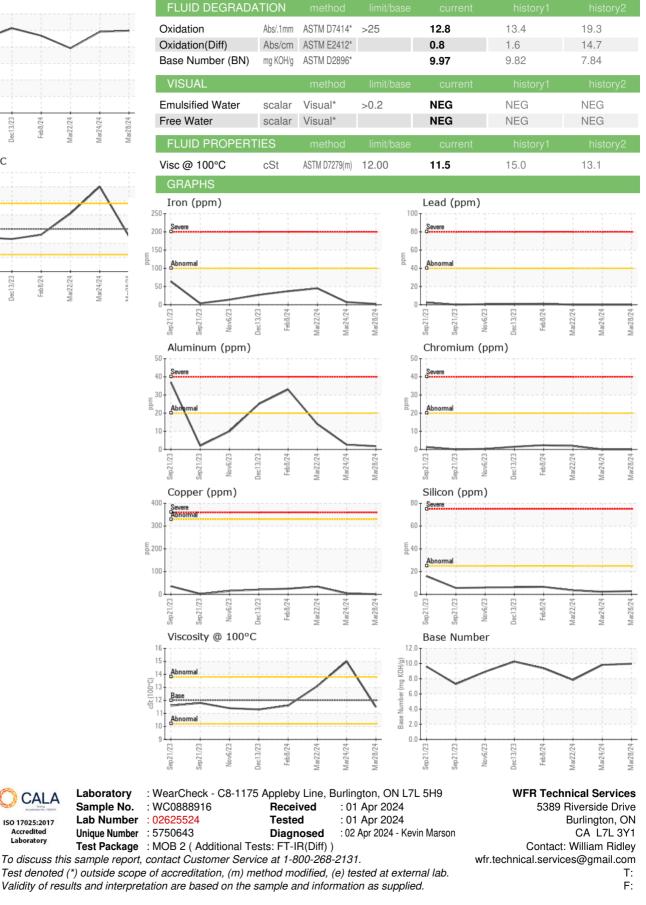
Sep21/23

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Dec13/23

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