

OIL ANALYSIS REPORT

BD SHOP
Machine Id
300180

Component
Diesel Engine

PETRO CANADA DURON SHP 10W30 (40 LTR)

Sample Rating Trend



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

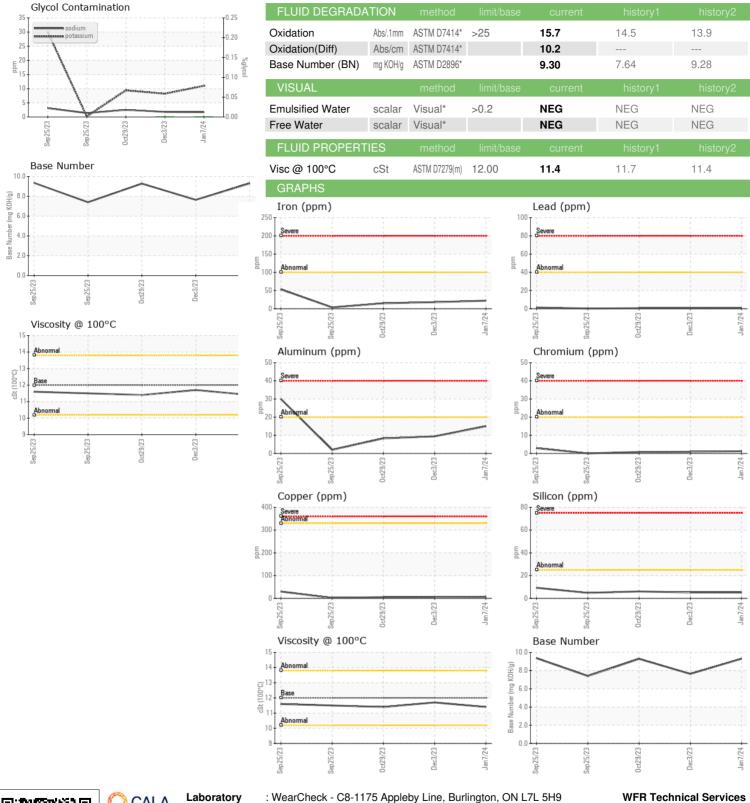
Fluid Condition

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		WC0888931	WC0864694	WC0864679
Sample Date		Client Info		07 Jan 2024	03 Dec 2023	29 Oct 2023
Machine Age	kms	Client Info		235072	221761	206940
Oil Age	kms	Client Info		43606	30295	15474
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
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WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	22	18	15
Chromium	ppm	ASTM D5185(m)	>20	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	15	9	8
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	7	6	5
Tin	ppm	ASTM D5185(m)	>15	0	0	0
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	3
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	50	60	58	67
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	950	959	955	1099
Calcium	ppm	ASTM D5185(m)	1050	1082	1068	1230
Phosphorus	ppm	ASTM D5185(m)	995	989	980	1116
Zinc	ppm	ASTM D5185(m)	1180	1183	1165	1350
Sulfur	ppm	ASTM D5185(m)	2600	2632	2473	2884
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	5	6
Sodium	ppm	ASTM D5185(m)		2	2	2
Potassium	ppm	ASTM D5185(m)	>20	11	8	9
Glycol	%	ASTM D7922*		0.0	0.0	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.5	0.4	0.2
Nitration	Abs/cm	ASTM D7624*	>20	8.5	7.3	6.2
Nitration(Diff)	Abs/cm	ASTM D7624*		1.6		
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.7	18.8	18.4
Sulfation(Diff)	Abs/cm	ASTM D7415*		2.3		
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OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WC0888931 : 02606936 : 5708022

Recieved

Diagnosed : 09 Jan 2024 Diagnostician : Kevin Marson

Test Package : MOB 2 (Additional Tests: FT-IR(Diff), Glycol)

: 08 Jan 2024

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

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

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