

OIL ANALYSIS REPORT

Sample Rating Trend







BD SHOP Machine Id 200292

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.

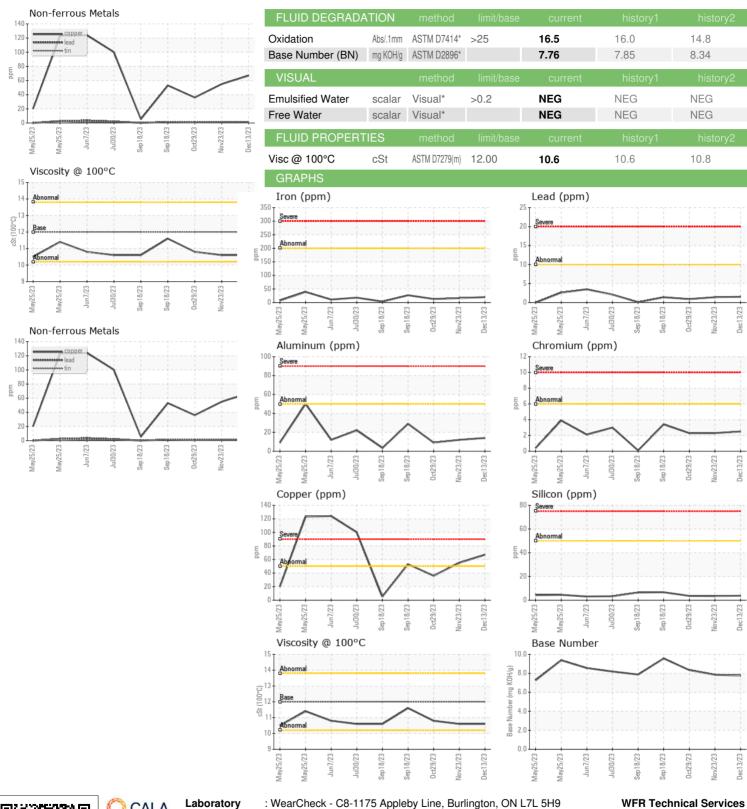
Fluid Condition

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

May2023 May2023 Jun2023 Sag2023 Sag2023 Oc2023 Nov2023 Dac2023						
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864701	WC0864691	WC0864676
Sample Date		Client Info		13 Dec 2023	23 Nov 2023	29 Oct 2023
Machine Age	kms	Client Info		215359	207446	191865
Oil Age	kms	Client Info		42130	34216	18635
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		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	20	16	13
Chromium	ppm	ASTM D5185(m)	>6	2	2	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	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>50	14	12	9
Lead	ppm	ASTM D5185(m)	>10	2	1	<1
Copper	ppm	ASTM D5185(m)	>50	67	55	36
Tin	ppm	ASTM D5185(m)	>6	<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	3
Barium	ppm	ASTM D5185(m)	0	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	50	63	61	69
	ppm	ASTM D5185(m)	0	0	0	0
-	ppm	ASTM D5185(m)	950	1004	1000	1127
	ppm	ASTM D5185(m)	1050	1118	1116	1240
Phosphorus	ppm	ASTM D5185(m)	995	1000	989	1138
	ppm	ASTM D5185(m)	1180	1215	1213	1369
	ppm	ASTM D5185(m)	2600	2196	2262	2790
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
	ppm	ASTM D5185(m)	>50	4	4	4
	ppm	ASTM D5185(m)		2	2	2
Potassium	ppm	ASTM D5185(m)	>20	32	25	20
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.4	0.3	0.2
Nitration	Abs/cm	ASTM D7624*	>20	8.6	7.7	6.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.4	20.2	19.4



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: 02603378

: WC0864701

: 5696463

Recieved : 15 Dec 2023 Diagnosed

: 21 Dec 2023 Diagnostician : 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.

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