

OIL ANALYSIS REPORT

Sample Rating Trend





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 (AI) 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

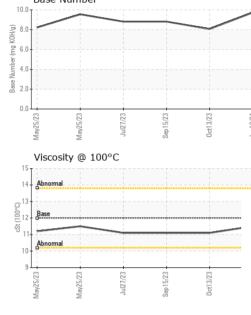
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

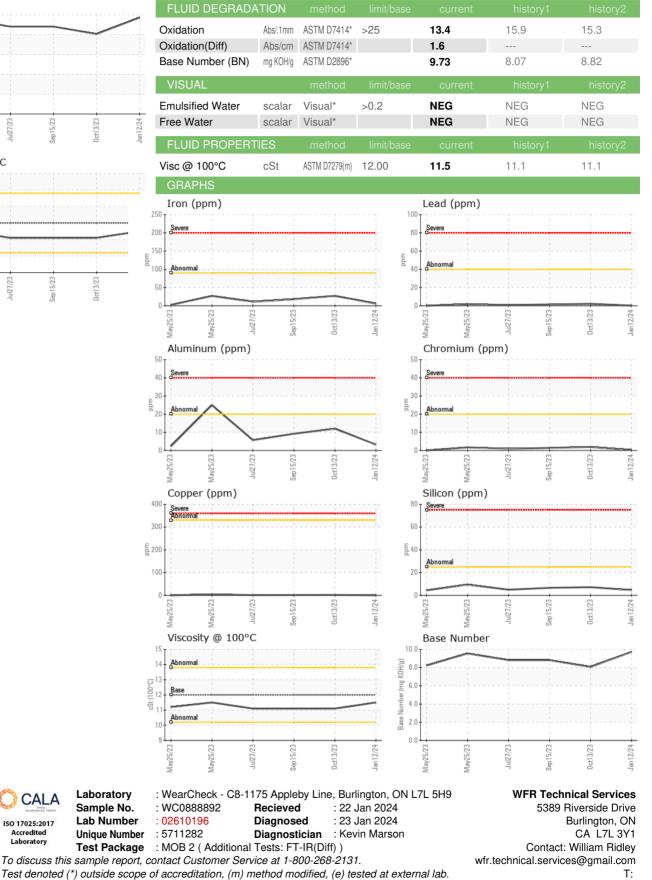
LIR)		May2023	May2023 Jul2023	Sep2023 Oct2023	Jan2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0888892	WC0864670	WC0852037
Sample Date		Client Info		12 Jan 2024	13 Oct 2023	15 Sep 2023
Machine Age	kms	Client Info		183924	155461	143987
Oil Age	kms	Client Info		1	42509	31035
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	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)	>90	6	27	18
Chromium	ppm	ASTM D5185(m)	>20	<1	2	1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	12	9
Lead	ppm	ASTM D5185(m)	>40	<1	2	1
Copper	ppm	ASTM D5185(m)	>330	<1	2	1
Tin	ppm	ASTM D5185(m)	>15	0	<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	7	5	5
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	57	61	60
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	931	969	972
Calcium	ppm	ASTM D5185(m)	1050	1009	1083	1042
Phosphorus	ppm	ASTM D5185(m)	995	981	976	1068
Zinc	ppm	ASTM D5185(m)	1180	1122	1219	1176
Sulfur	ppm	ASTM D5185(m)	2600	2693	2420	2497
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	7	7
Sodium	ppm	ASTM D5185(m)		1	7	3
Potassium	ppm	ASTM D5185(m)	>20	6	33	21
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	4.8	8.2	7.6
Nitration(Diff)	Abs/cm	ASTM D7624*		0.2		
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.1	20.1	19.5
Sulfation(Diff)	Abs/cm	ASTM D7415*		0.4		
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Base Number





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CALA

ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No.

Validity of results and interpretation are based on the sample and information as supplied.

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