

OIL ANALYSIS REPORT

Area BD SHOP 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.

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.in <i>)</i>		May2023	May2023 Jun2023	Jul2023 Sep2023 Sep2023	0ct2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0864676	WC0852044	WC0852043	
Sample Date		Client Info		29 Oct 2023	18 Sep 2023	18 Sep 2023	
Machine Age	kms	Client Info		191865	173230	173230	
Oil Age	kms	Client Info		18635	1	60277	
Oil Changed		Client Info		Not Changd	Not Changd	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATION	٧	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>200	13	4	27	
Chromium	ppm	ASTM D5185(m)	>6	2	<1	3	
Nickel	ppm	ASTM D5185(m)	>3	<1	0	<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	9	3	29	
Lead	ppm	ASTM D5185(m)	>10	<1	<1	1	
Copper	ppm	ASTM D5185(m)	>50	36	5	53	
Tin	ppm	ASTM D5185(m)	>6	<1	0	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	3	5	6	
Barium	ppm	ASTM D5185(m)	0	<1	0	0	
Molybdenum	ppm	ASTM D5185(m)	50	69	58	64	
Manganese	ppm	ASTM D5185(m)	0	0	0	<1	
Magnesium	ppm	ASTM D5185(m)	950	1127	950	1008	
Calcium	ppm	ASTM D5185(m)	1050	1240	1045	1136	
Phosphorus	ppm	ASTM D5185(m)	995	1138	988	947	
Zinc	ppm	ASTM D5185(m)	1180	1369	1162	1211	
Sulfur	ppm	ASTM D5185(m)	2600	2790	2507	1825	
Lithium	ppm	ASTM D5185(m)		<1	<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>50	4	6	7	
Sodium	ppm	ASTM D5185(m)		2	2	3	
Potassium	ppm	ASTM D5185(m)	>20	20	7	67	
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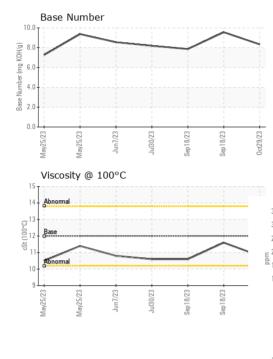
Sample Rating Trend

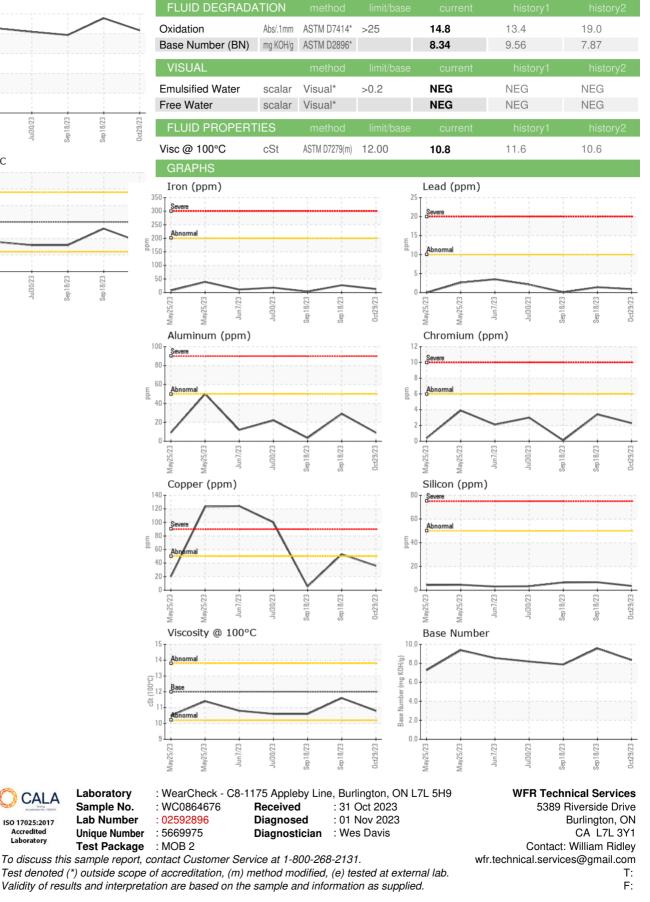
NORMAL

Potassium	ppm	ASTM D5185(m)	>20	20	7	67
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.2	0	0.5
Nitration	Abs/cm	ASTM D7624*	>20	6.4	4.8	9.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.4	18.0	21.6



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