

OIL ANALYSIS REPORT

Sample Rating Trend





Component Diesel Engine

Fluid

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.

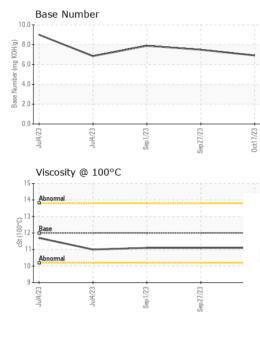
Fluid Condition

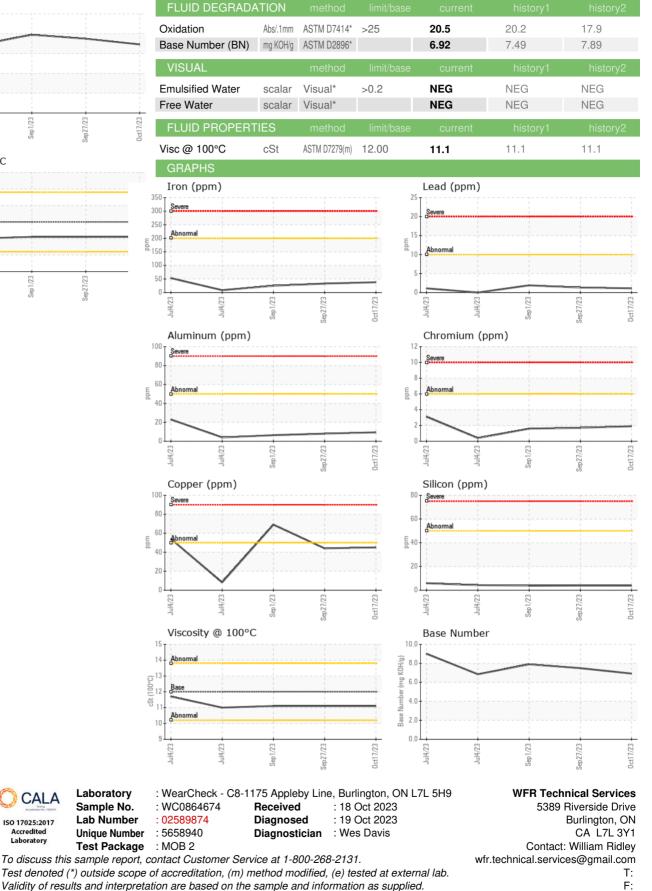
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

/		Jul2023	Jul2023	Sep2023 Sep2023	Oct2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864674	WC0852041	WC0852026
Sample Date		Client Info		17 Oct 2023	27 Sep 2023	01 Sep 2023
Machine Age	kms	Client Info		178521	169548	157160
Oil Age	kms	Client Info		47073	38100	25712
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	N	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	38	33	25
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	<1
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>50	9	8	6
Lead	ppm	ASTM D5185(m)	>10	1	1	2
Copper	ppm	ASTM D5185(m)	>50	45	44	69
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	3	4	4
Barium	ppm	ASTM D5185(m)	0	<1	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	63	64	62
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	993	1007	989
Calcium	ppm	ASTM D5185(m)	1050	1139	1140	1108
Phosphorus	ppm	ASTM D5185(m)	995	984	976	1042
Zinc	ppm	ASTM D5185(m)	1180	1208	1232	1199
Sulfur	ppm	ASTM D5185(m)	2600	1871	1877	2042
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	4	4	4
Sodium	ppm	ASTM D5185(m)		2	2	2
Potassium	ppm	ASTM D5185(m)	>20	19	17	14
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.9	0.8	0.6
Nitration	Abs/cm	ASTM D7624*	>20	10.3	10.1	9.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.5	22.1	22.2
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CALA

ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No.

Lab Number