

# **OIL ANALYSIS REPORT**

#### Sample Rating Trend



Machine Id 745185

# Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- GAL)

## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

Metal levels are typical for a new component breaking in.

#### 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. No other contaminants were detected in the oil.

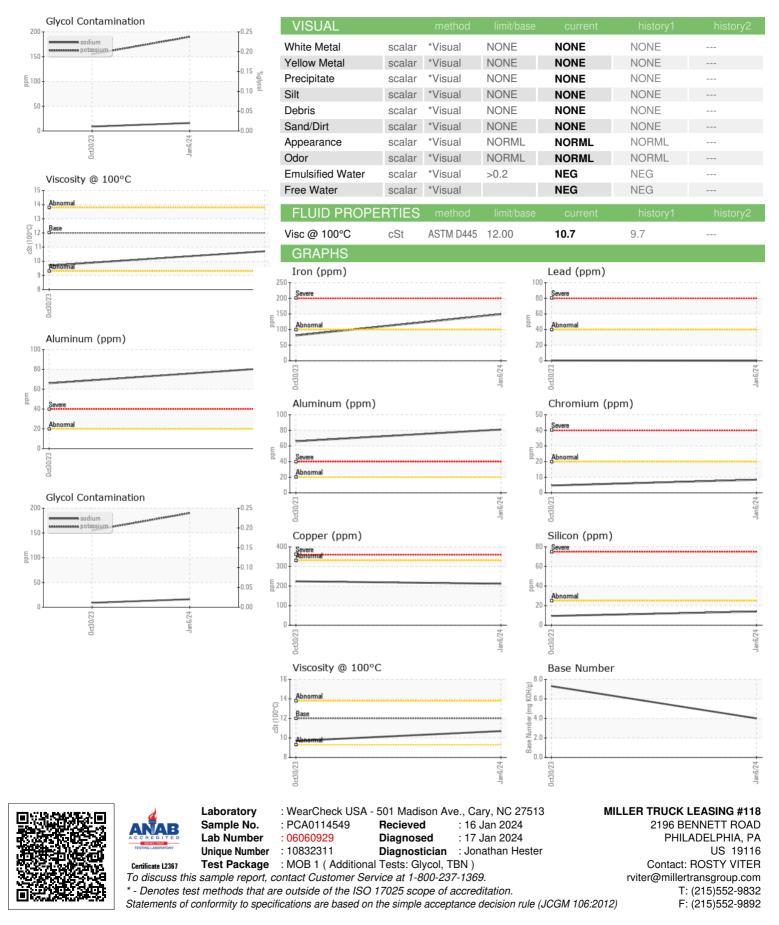
#### **Fluid Condition**

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

AL)			0ct2023	Jan2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0114549	PCA0108321	
Sample Date		Client Info		06 Jan 2024	30 Oct 2023	
Machine Age	mls	Client Info		74140	34998	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		Changed	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	149	81	
Chromium	ppm	ASTM D5185m		8	5	
Nickel	ppm	ASTM D5185m	>4	2	0	
Titanium	ppm	ASTM D5185m	-	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m		81	66	
Lead	ppm		>40	0	<1	
Copper		ASTM D5185m		212	224	
Tin	ppm	ASTM D5185m		3	2	
Vanadium	ppm	ASTM D5185m	>10	0	2	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	ppm	method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	2	19	26	
Barium	ppm	ASTM D5185m	_	0	0	
Molybdenum	ppm	ASTM D5185m	50	45	42	
	ppm			-		
Manganese	ppm	ASTM D5185m		5	4	
Magnesium	ppm	ASTM D5185m	950	611		
Calcium	ppm	ASTM D5185m	1050	1734	1688	
Phosphorus	ppm	ASTM D5185m	995	799	644	
Zinc	ppm	ASTM D5185m	1180	1006	795	
Sulfur	ppm	ASTM D5185m	2600	2009	1611	
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	14	10	
Sodium	ppm	ASTM D5185m		16	9	
Potassium	ppm	ASTM D5185m	>20	190	155	
Glycol	%	*ASTM D2982		NEG	NEG	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	15.8	10.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.6	23.6	
						history2
FLUID DEGRA	DATION	method	limit/base	current	history1	THSTOLYZ
FLUID DEGRA	Abs/.1mm	*ASTM D7414	>25	35.2	25.7	



# **OIL ANALYSIS REPORT**



Contact/Location: ROSTY VITER - MILPHINE