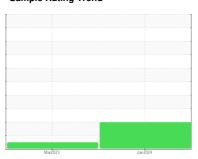


# **OIL ANALYSIS REPORT**

Sample Rating Trend







**738604** 

Component **Diesel Engine** 

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

### DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

## Wear

Cylinder, crank, or cam shaft wear is indicated. All other 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. No other contaminants were detected in the oil.

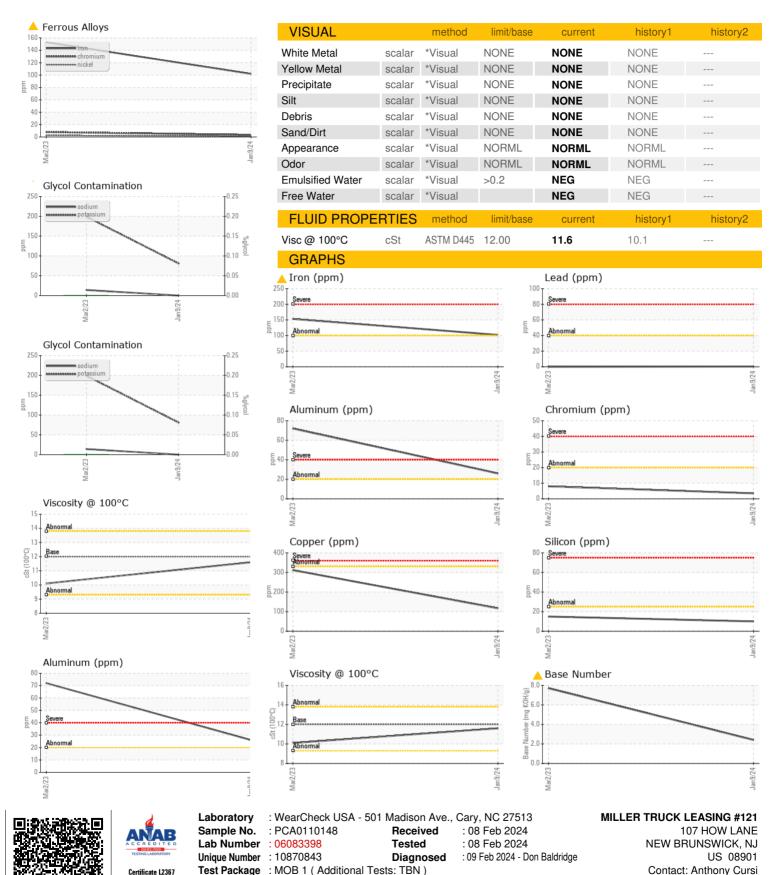
## Fluid Condition

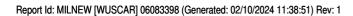
The BN level is low. The condition of the oil is acceptable for the time in service.

TS)			Mar2023	Jan2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0110148	PCA0091394	
Sample Date		Client Info		09 Jan 2024	02 Mar 2023	
Machine Age	mls	Client Info		107039	37198	
Dil Age	mls	Client Info		15000	37198	
Dil Changed	11110	Client Info		Changed	Changed	
Sample Status		Oliotic IIIIo		ABNORMAL	NORMAL	
	ION	method	limit/base	current	history1	history2
	IOIV					
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	0.0	
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	<u> </u>	153	
Chromium	ppm	ASTM D5185m	>20	4	8	
Nickel	ppm	ASTM D5185m	>4	1	3	
Fitanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	26	72	
_ead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	117	312	
Γin	ppm	ASTM D5185m	>15	3	11	
/anadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	2	38	
Barium	ppm	ASTM D5185m	0	<1	0	
Molybdenum	ppm	ASTM D5185m	50	65	73	
Manganese	ppm	ASTM D5185m	0	3	7	
Magnesium	ppm	ASTM D5185m	950	910	876	
Calcium	ppm	ASTM D5185m	1050	1281	2856	
Phosphorus	ppm	ASTM D5185m	995	964	1169	
Zinc	ppm	ASTM D5185m	1180	1178	1491	
Sulfur	ppm	ASTM D5185m	2600	2183	2999	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	15	
Sodium	ppm	ASTM D5185m		0	14	
Potassium	ppm	ASTM D5185m	>20	81	199	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.8	0.9	
Nitration	Abs/cm	*ASTM D7624	>20	15.9	11.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.4	24.1	
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.4	24.9	
Base Number (BN)	mg KOH/g	ASTM D2896		<u>^</u> 2.4	7.7	



# **OIL ANALYSIS REPORT**





To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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