

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend



Machine Id 631634

#### Component Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (--- GA

#### 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

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. No other contaminants were detected in the oil.

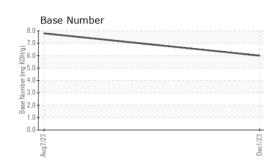
#### Fluid Condition

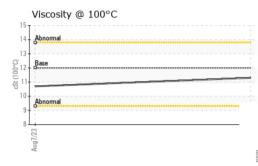
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

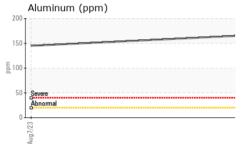
GAL)			Aug <sup>2</sup> 023	Dec2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0112232	PCA0102921	
Sample Date		Client Info		01 Dec 2023	07 Aug 2023	
Machine Age	mls	Client Info		59096	30519	
Oil Age	mls	Client Info		28577	0	
Oil Changed		Client Info		Changed	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	87	54	
Chromium	ppm	ASTM D5185m	>20	6	4	
Nickel	ppm	ASTM D5185m	>4	2	<1	
Titanium	ppm	ASTM D5185m		2	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	166	145	
Lead	ppm	ASTM D5185m	>40	<1	<1	
Copper	ppm	ASTM D5185m	>330	162	181	
Tin	ppm	ASTM D5185m	>15	5	4	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	18	27	
Barium	ppm	ASTM D5185m	0	13	2	
Molybdenum	ppm	ASTM D5185m	50	49	46	
Manganese	ppm	ASTM D5185m	0	6	5	
Magnesium	ppm	ASTM D5185m	950	619	565	
Calcium	ppm	ASTM D5185m	1050	1649	1624	
Phosphorus	ppm	ASTM D5185m	995	747	746	
Zinc	ppm	ASTM D5185m	1180	938	909	
Sulfur	ppm	ASTM D5185m	2600	2053	2032	
CONTAMINAN	TS	method	limit/base		history1	history2
Silicon	ppm		>25	13	9	
Sodium	ppm	ASTM D5185m		5	5	
Potassium	ppm	ASTM D5185m	>20	373	302	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.3	0.6	
Nitration	Abs/cm	*ASTM D7624		11.6	9.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.0	23.0	
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.3	22.2	
Base Number (BN)	mg KOH/g	ASTM D2896		6.0	7.8	

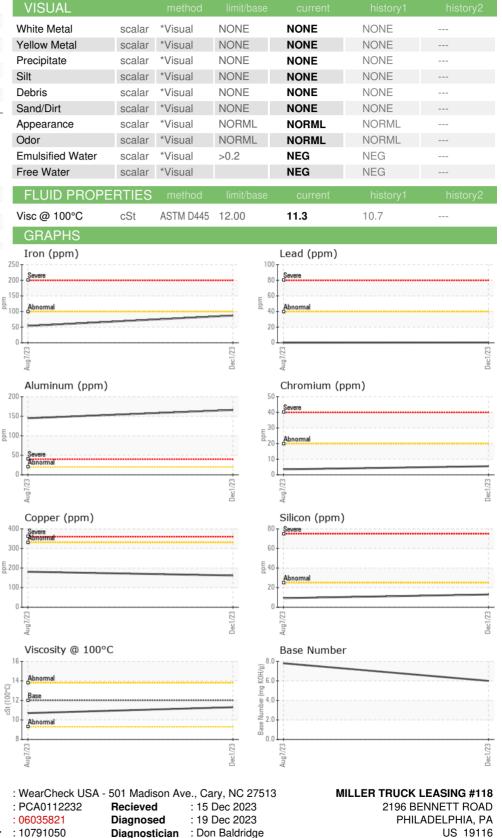


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 Vertificate L2367
 Unique Number
 : 10791050
 Diagnostician
 : Don Baldridge

 Certificate L2367
 Test Package
 : MOB 1 (Additional Tests: TBN )
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 To discuss this sample report, contact Customer Service at 1-800-237-1369.
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 - 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)

Report Id: MILPHINE [WUSCAR] 06035821 (Generated: 12/19/2023 11:13:04) Rev: 1

Laboratory

Sample No.

Lab Number

Contact/Location: ROSTY VITER - MILPHINE

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