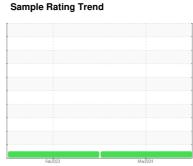


# **OIL ANALYSIS REPORT**

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NORMAL



Machine Id **25087/P123** 

Component

**Diesel Engine** 

PETRO CANADA DURON HP 15W40 (--- GAL)

## DIAGNOSIS

### Recommendation

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. There is no indication of any contamination in the oil.

## **Fluid Condition**

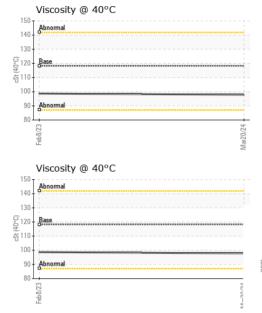
The condition of the oil is acceptable for the time in service.

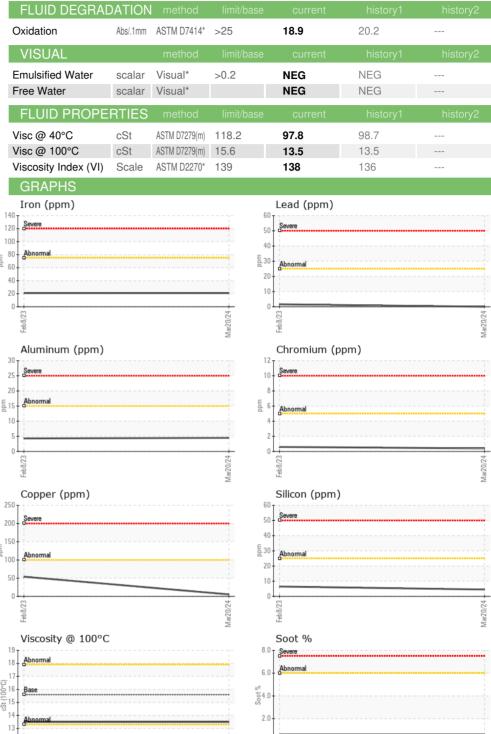
AL)			Feb2023	Mar2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0088423	PC0071361	
Sample Date		Client Info		20 Mar 2024	08 Feb 2023	
Machine Age	kms	Client Info		33698	1246	
Oil Age	kms	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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 D5185(m)	>75	21	21	
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	
Nickel	ppm	ASTM D5185(m)	>4	0	<1	
Titanium	ppm	ASTM D5185(m)	>2	0	<1	
Silver	ppm	ASTM D5185(m)	>2	0	0	
Aluminum	ppm	ASTM D5185(m)	>15	4	4	
Lead	ppm	ASTM D5185(m)	>25	0	2	
Copper	ppm	ASTM D5185(m)	>100	5	54	
Tin	ppm	ASTM D5185(m)	>4	0	<1	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	2	3	
Barium	ppm	ASTM D5185(m)	0	0	0	
Molybdenum	ppm	ASTM D5185(m)	60	60	56	
Manganese	ppm	ASTM D5185(m)	0	0	<1	
Magnesium	ppm	ASTM D5185(m)	1010	951	901	
Calcium	ppm	ASTM D5185(m)	1070	1033	1190	
Phosphorus	ppm	ASTM D5185(m)	1150	950	970	
Zinc	ppm	ASTM D5185(m)	1270	1158	1132	
Sulfur	ppm	ASTM D5185(m)	2060	2465	2503	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	6	
Sodium	ppm	ASTM D5185(m)		2	2	
Potassium	ppm	ASTM D5185(m)	>20	7	8	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.6	0.6	
Nitration	Abs/cm	ASTM D7624*	>20	9.3	9.3	
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.9	23.4	

Contact/Location: Eric Landman - TFSTOR



## **OIL ANALYSIS REPORT**





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: 26 Mar 2024

: 26 Mar 2024

: 26 Mar 2024 - Wes Davis



CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number

: 02624579 Unique Number : 5749698

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: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : PC0088423 Received **Tested** Diagnosed

Test Package : MOB 1 (Additional Tests: KV40, VI)

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

**TORONTO FIRE SERVICES** 

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