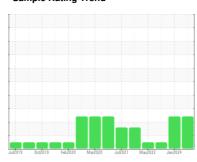


## **OIL ANALYSIS REPORT**

**Sample Rating Trend** 





Machine Id L-55
Component

**Diesel Engine** 

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

### DIAGNOSIS

#### Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

#### Wear

All component wear rates are normal.

### Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

#### ▲ Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

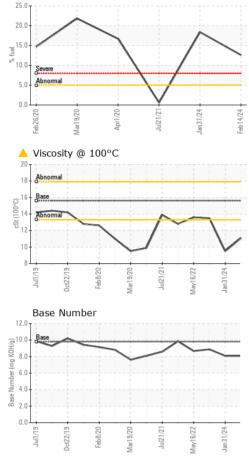
Jul2013 Des2019 Feb 2020 Mar2020 Jul2021 Mary2022 Jan2024	
SAMPLE INFORMATION method limit/base current history1	history2
Sample Number Client Info PCA0118528 PCA0118530 PC	CA0016744
Sample Date         Client Info         14 Feb 2024         31 Jan 2024         18	Jul 2022
Machine Age hrs Client Info 15863 15606 10	257
Oil Age         hrs         Client Info         257         500         25	50
Oil Changed Client Info Changed Changed Ch	nanged
Sample Status SEVERE SEVERE NO	ORMAL
CONTAMINATION method limit/base current history1	history2
Water WC Method >0.2 NEG NEG	NEG
Glycol WC Method NEG NEG	NEG
WEAR METALS method limit/base current history1	history2
Iron ppm ASTM D5185m >100 <b>8</b> 9	31
Chromium         ppm         ASTM D5185m         >20         <1         <1	<1
Nickel ppm ASTM D5185m >4 <b>0</b> 0	<1
Titanium ppm ASTM D5185m <b>0</b> <1	<1
Silver ppm ASTM D5185m >3 <b>0</b> 0	0
Aluminum ppm ASTM D5185m >20 <b>2</b>	3
<b>Lead</b> ppm ASTM D5185m >40 <b>&lt;1</b> 1	2
Copper         ppm         ASTM D5185m         >330         <1         <1	10
Tin ppm ASTM D5185m >15 <1 <1	2
Vanadium ppm ASTM D5185m <b>0</b>	0
Cadmium ppm ASTM D5185m <b>0</b> <1	0
ppin remission v	0
ADDITIVES method limit/base current history1	history2
ADDITIVES method limit/base current history1	
ADDITIVES method limit/base current history1  Boron ppm ASTM D5185m <1 <1	history2
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185m         <1	history2
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185m         <1	history2 2 0
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185m         <1	history2 2 0 56
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185m         <1	history2 2 0 56 <1
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185m         <1	history2 2 0 56 <1 887
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185m         <1	history2 2 0 56 <1 887 1155
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185m         <1	history2 2 0 56 <1 887 1155 982
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185m         <1	history2 2 0 56 <1 887 1155 982 1227
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185m         <1	history2 2 0 56 <1 887 1155 982 1227 2968
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185m         <1	history2 2 0 56 <1 887 1155 982 1227 2968 history2
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185m         <1	history2 2 0 56 <1 887 1155 982 1227 2968 history2 6
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185m         <1	history2 2 0 56 <1 887 1155 982 1227 2968 history2 6 2
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185m         <1	history2 2 0 56 <1 887 1155 982 1227 2968 history2 6 2 <1
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185m         <1	history2 2 0 56 <1 887 1155 982 1227 2968 history2 6 2 <1 <1.0
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185m         <1	history2 2 0 56 <1 887 1155 982 1227 2968 history2 6 2 <1 <1.0
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185m         <1	history2 2 0 56 <1 887 1155 982 1227 2968 history2 6 2 <1 <1.0 history2 0.9
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185m         <1	history2 2 0 56 <1 887 1155 982 1227 2968 history2 6 2 <1 <1.0 history2 0.9 9.5
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185m         <1	history2 2 0 56 <1 887 1155 982 1227 2968 history2 6 2 <1 <1.0 history2 0.9 9.5 21.8

Contact/Location: FRANK NALLY - SCRMIN

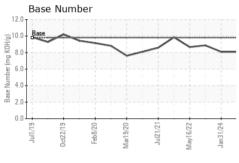


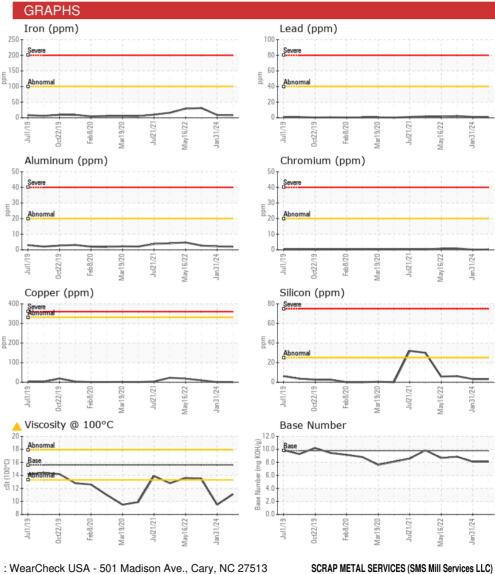
Fuel Dilution

# **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.6	<u>▲</u> 11.1	<b>△</b> 9.5	13.5
GRAPHS						
					•	•









Laboratory Sample No. Lab Number : 06094384 Unique Number : 10887237

: PCA0118528

Received

: 20 Feb 2024 : 21 Feb 2024 **Tested** 

: 21 Feb 2024 - Wes Davis Diagnosed

SCRAP METAL SERVICES (SMS Mill Services LLC) 1500 COMMERCIAL AVE

MINGO JUNCTION, OH US 43938

Test Package: MOB 2 (Additional Tests: PercentFuel) Contact: FRANK NALLY To discuss this sample report, contact Customer Service at 1-800-237-1369. fnally@scrapmetalservices.com

\* - 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)

T: F: