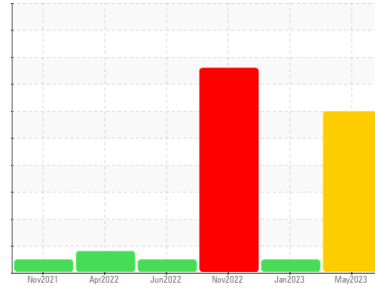




# OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id

**355**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON UHP 5W30 (--- GAL)**

## DIAGNOSIS

### Recommendation

Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

### Wear

Usure de piston.

### Contamination

Il n'y a aucun indice de contamination dans l'huile.

### Fluid Condition

Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l'huile. l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0805608</b>	WC0768156	WC0731649
Sample Date	Client Info		<b>29 May 2023</b>	04 Jan 2023	30 Nov 2022
Machine Age	kms	Client Info	<b>704489</b>	656922	656641
Oil Age	kms	Client Info	<b>47848</b>	281	0
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>SEVERE</b>	NORMAL	SEVERE

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >165	<b>138</b>	28	91
Chromium	ppm	ASTM D5185(m) >5	<b>4</b>	1	4
Nickel	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185(m) >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >20	<b>53</b>	12	43
Lead	ppm	ASTM D5185(m) >150	<b>1</b>	<1	<1
Copper	ppm	ASTM D5185(m) >90	<b>40</b>	32	9
Tin	ppm	ASTM D5185(m) >5	<b>&lt;1</b>	<1	<1
Antimony	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 0	<b>13</b>	54	13
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 64	<b>66</b>	58	68
Manganese	ppm	ASTM D5185(m) 0	<b>2</b>	<1	1
Magnesium	ppm	ASTM D5185(m) 1160	<b>1136</b>	1096	1261
Calcium	ppm	ASTM D5185(m) 820	<b>975</b>	901	1052
Phosphorus	ppm	ASTM D5185(m) 1160	<b>1134</b>	1106	1240
Zinc	ppm	ASTM D5185(m) 1260	<b>1266</b>	1183	1443
Sulfur	ppm	ASTM D5185(m) 3000	<b>2424</b>	2878	2844
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >35	<b>10</b>	8	7
Sodium	ppm	ASTM D5185(m)	<b>9</b>	5	8
Potassium	ppm	ASTM D5185(m) >20	<b>2</b>	<1	2

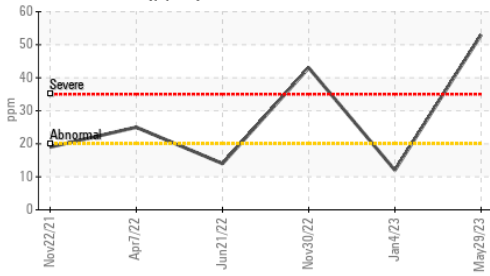
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >7.5	<b>1.6</b>	0.1	2
Nitration	Abs/cm	ASTM D7624* >20	<b>15.2</b>	8.1	15.9
Sulfation	Abs./1mm	ASTM D7415* >30	<b>29.6</b>	21.8	▲ 34.7



# OIL ANALYSIS REPORT

## Aluminum (ppm)



## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs./1mm ASTM D7414*	>25	28.3	17.5 ▲ 31.7
Base Number (BN)	mg KOH/g ASTM D2896*	11.0	6.50	8.83 5.83

## VISUAL

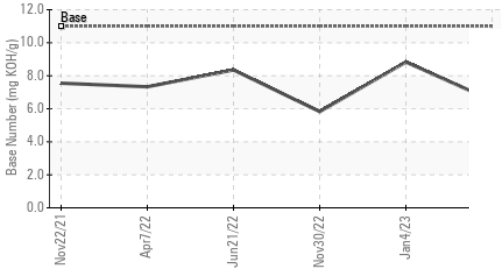
method	limit/base	current	history1	history2
Emulsified Water	scalar Visual*	>0.2	NEG	NEG NEG
Free Water	scalar Visual*		NEG	NEG NEG

## FLUID PROPERTIES

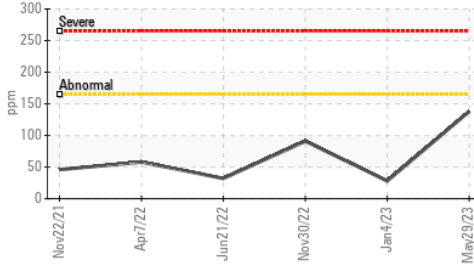
method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D7279(m)	11.9	13.0	11.9 13.5

## GRAPHS

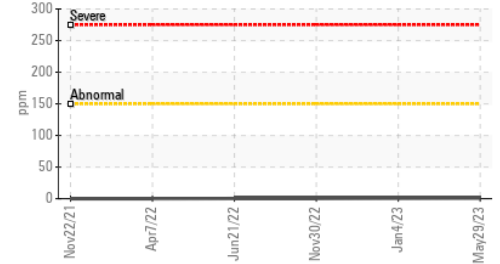
## Base Number



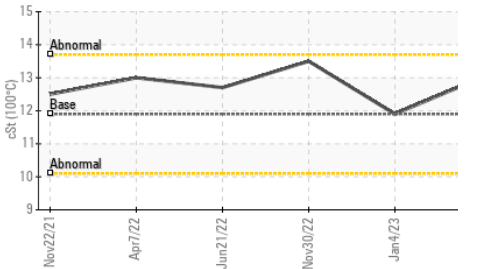
## Iron (ppm)



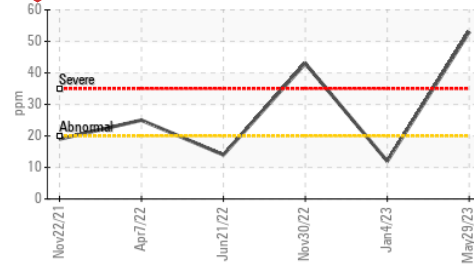
## Lead (ppm)



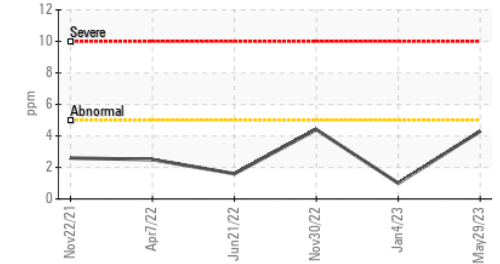
## Viscosity @ 100°C



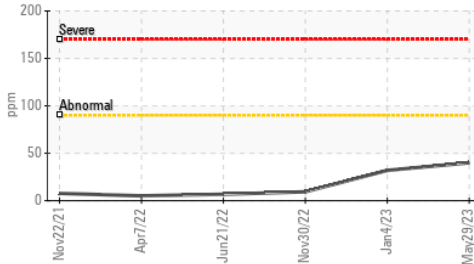
## Aluminum (ppm)



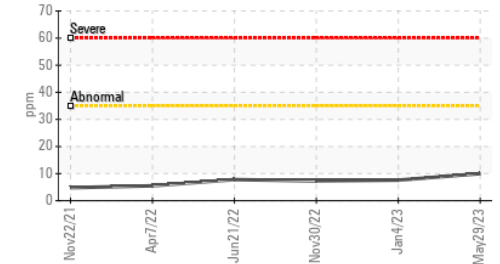
## Chromium (ppm)



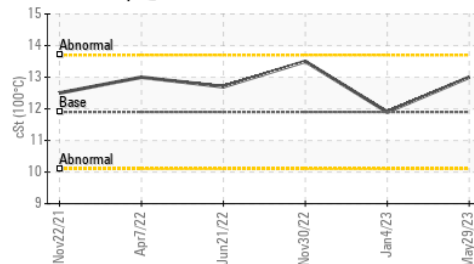
## Copper (ppm)



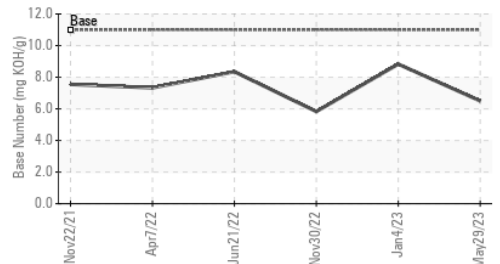
## Silicon (ppm)



## Viscosity @ 100°C



## Base Number



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0805608 **Received** : 12 Jun 2023  
**Lab Number** : 02563467 **Diagnosed** : 12 Jun 2023  
**Unique Number** : 5592508 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 2

**Levis - Transport Laberge**  
 3200 rue de l'etchemin  
 Levis, QC  
 CA G6W 7X6  
 Contact: Stephane Godbout  
 aviseur@transportlaberge.com  
 T: (450)347-4336  
 F:

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.