

Machine Id
2009

Component
Diesel Engine

Fluid
PETRO CANADA DURON HP 15W40 (--- LTR)

DIAGNOSIS

Recommendation

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Wear

Les taux d'usure de tous les composants sont normaux.

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. Le AN est acceptable pour ce fluide. L'état de l'huile permet d'en prolonger l'utilisation.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0073588	PC0062901	PC0041362
Sample Date	Client Info	30 Jun 2023	17 Jun 2022	23 Jun 2021
Machine Age	hrs Client Info	0	0	0
Oil Age	hrs Client Info	3880	2766	2869
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	<1.0
Glycol	WC Method	NEG	NEG	0.0

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >80	34	57	53
Chromium	ppm ASTM D5185(m) >5	<1	<1	<1
Nickel	ppm ASTM D5185(m) >2	0	0	<1
Titanium	ppm ASTM D5185(m)	0	<1	0
Silver	ppm ASTM D5185(m) >3	0	0	0
Aluminum	ppm ASTM D5185(m) >30	5	8	9
Lead	ppm ASTM D5185(m) >30	0	0	0
Copper	ppm ASTM D5185(m) >150	<1	2	1
Tin	ppm ASTM D5185(m) >5	0	<1	0
Antimony	ppm ASTM D5185(m)	<1	0	0
Vanadium	ppm ASTM D5185(m)	0	0	0
Beryllium	ppm ASTM D5185(m)	0	0	0
Cadmium	ppm ASTM D5185(m)	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 0	1	2	2
Barium	ppm ASTM D5185(m) 0	0	0	0
Molybdenum	ppm ASTM D5185(m) 60	58	57	56
Manganese	ppm ASTM D5185(m) 0	<1	<1	<1
Magnesium	ppm ASTM D5185(m) 1010	975	963	944
Calcium	ppm ASTM D5185(m) 1070	1069	1080	1060
Phosphorus	ppm ASTM D5185(m) 1150	1068	1020	1016
Zinc	ppm ASTM D5185(m) 1270	1203	1211	1243
Sulfur	ppm ASTM D5185(m) 2060	2621	2725	2716
Lithium	ppm ASTM D5185(m)	<1	<1	<1

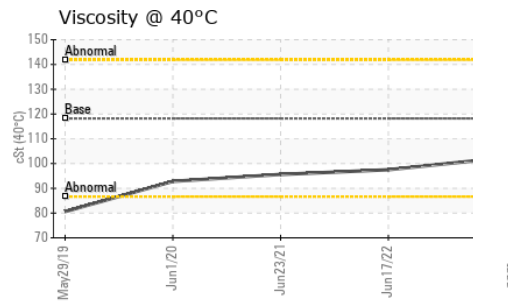
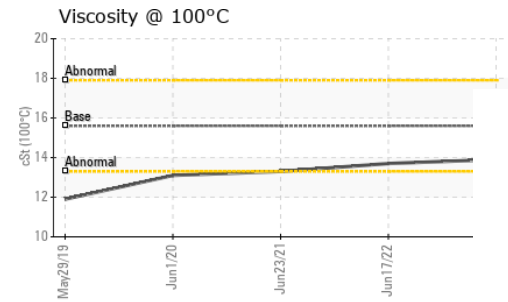
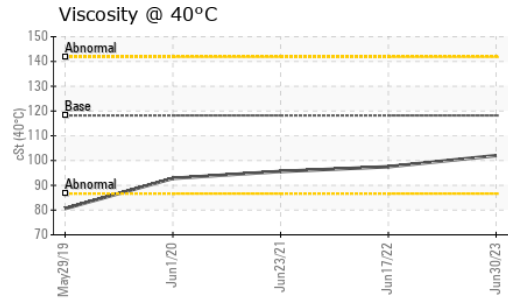
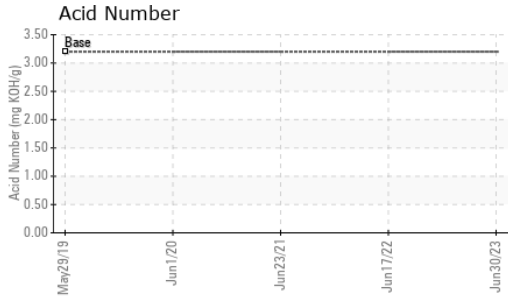
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	4	5	6
Sodium	ppm ASTM D5185(m)	2	2	2
Potassium	ppm ASTM D5185(m) >20	2	4	5

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	0.1	0	0.1
Nitration	Abs/cm ASTM D7624* >20	6.9	7.2	7.4
Sulfation	Abs/.1mm ASTM D7415* >30	18.6	19.2	19.0

OIL ANALYSIS REPORT

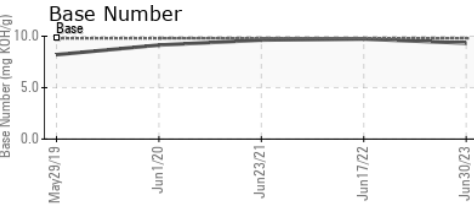
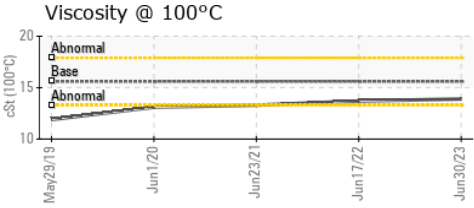
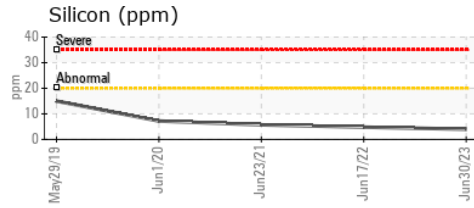
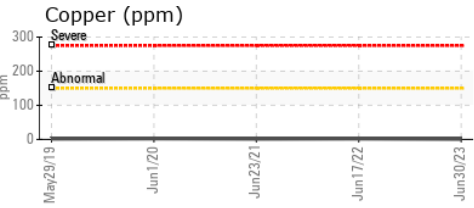
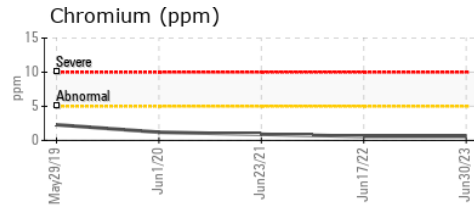
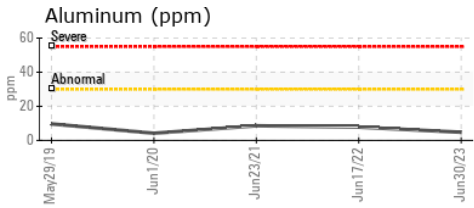
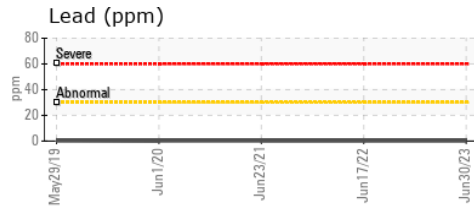
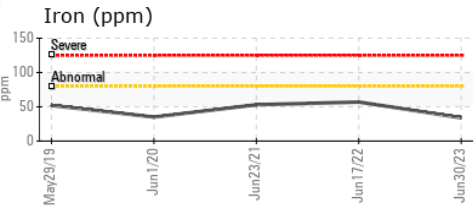


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	14.6	15.5	14.9
Acid Number (AN)	mg KOH/g	ASTM D974*	3.2	2.40	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	9.33	9.73	9.63

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
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 @ 40°C	cSt	ASTM D7279(m)	118.2	102	97.5	95.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	13.9	13.7	13.3
Viscosity Index (VI)	Scale	ASTM D2270*	139	137	141	138

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0073588 **Received** : 18 Jul 2023
Lab Number : **02570563** **Diagnosed** : 19 Jul 2023
Unique Number : 5607609 **Diagnostician** : Wes Davis
Test Package : MOB 2 (Additional Tests: KV40, TAN Auto, TAN Man, VI, Visual)

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 Contact: Eric Breton
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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.

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