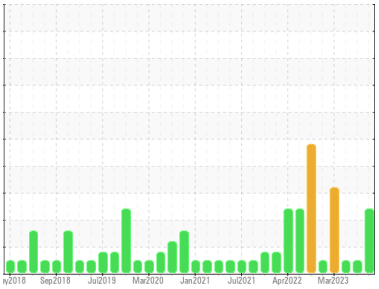
OIL ANALYSIS REPORT

Sample Rating Trend



FUEL

Machine Id
3009
Component
Rear Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (22 LTR)

DIAGNOSIS

Recommendation

Nous vous recommandons de vérifier le système d'injection de carburant. 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

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

Contamination

Quantité élevée de carburant dans l'huile. Les tests confirment la présence de carburant dans l'huile.

Fluid Condition

Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l'huile. Il y a du carburant dans l'huile, ce qui réduit la viscosité. l'huile ne peut plus être utilisée en raison de la présence de contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC0073967**	PC0073537	PC0063191
Sample Date		Client Info		**08 Jun 2023**	28 Apr 2023	07 Apr 2023
Machine Age	kms	Client Info		**0**	0	593936
Oil Age	kms	Client Info		**15950**	7854	3744
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**SEVERE**	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	**19**	30	10
Chromium	ppm	ASTM D5185(m)	>5	**2**	<1	2
Nickel	ppm	ASTM D5185(m)	>4	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	<1	<1
Silver	ppm	ASTM D5185(m)	>2	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>15	**1**	6	1
Lead	ppm	ASTM D5185(m)	>25	**<1**	<1	0
Copper	ppm	ASTM D5185(m)	>100	**<1**	<1	<1
Tin	ppm	ASTM D5185(m)	>4	**0**	0	0
Antimony	ppm	ASTM D5185(m)		**0**	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**	3	3
Barium	ppm	ASTM D5185(m)	0	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	60	**58**	58	60
Manganese	ppm	ASTM D5185(m)	0	**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	**939**	917	940
Calcium	ppm	ASTM D5185(m)	1070	**1005**	1051	1057
Phosphorus	ppm	ASTM D5185(m)	1150	**1031**	1039	1068
Zinc	ppm	ASTM D5185(m)	1270	**1166**	1157	1178
Sulfur	ppm	ASTM D5185(m)	2060	**2420**	2455	2627
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**5**	3	5
Sodium	ppm	ASTM D5185(m)		**31**	4	55
Potassium	ppm	ASTM D5185(m)	>20	**28**	2	48
Fuel	%	ASTM D7593*	>3.0	**6**	<1.0	<1.0
Glycol	%	ASTM D7922*		**0.0**	NEG	0.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	**0.8**	1.4	0.3
Nitration	Abs/cm	ASTM D7624*	>20	**9.2**	9.8	6.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	**20.7**	21.8	18.6

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**15.6**	16.9	13.5
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	**8.10**	8.15	9.36

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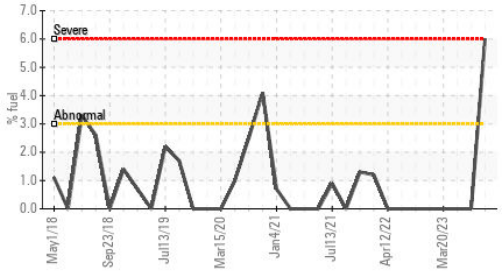
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

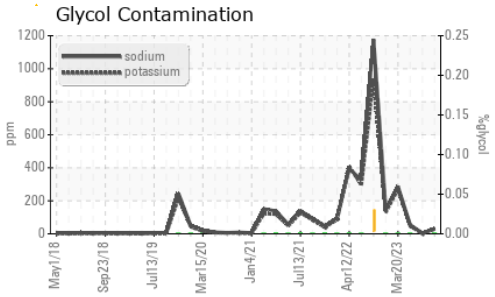
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	**86.7**	99.2	99.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	▲ **12.5**	14.0	14.0
Viscosity Index (VI)	Scale	ASTM D2270*	139	**140**	143	142

GRAPHS

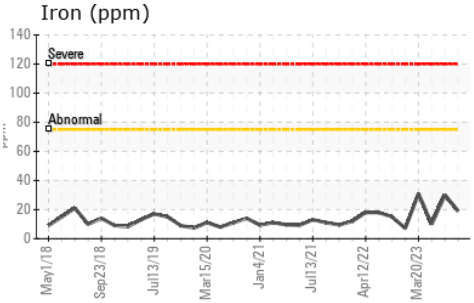
Fuel Dilution



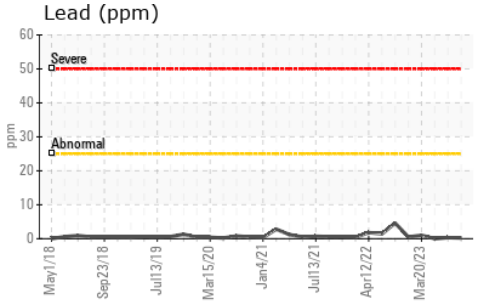
Glycol Contamination



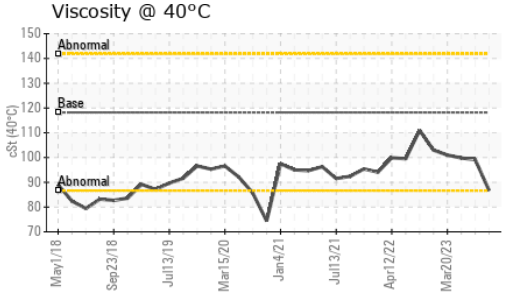
Iron (ppm)



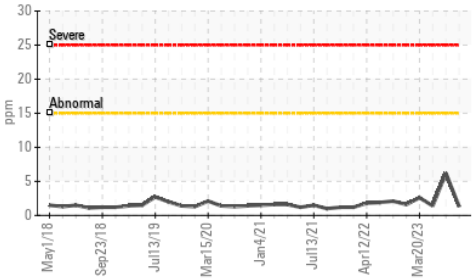
Lead (ppm)



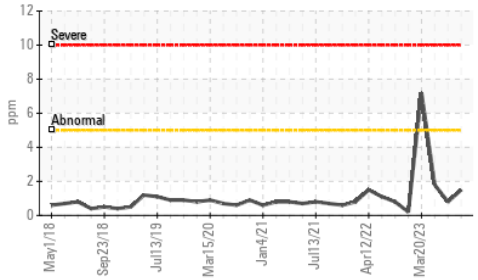
Viscosity @ 40°C



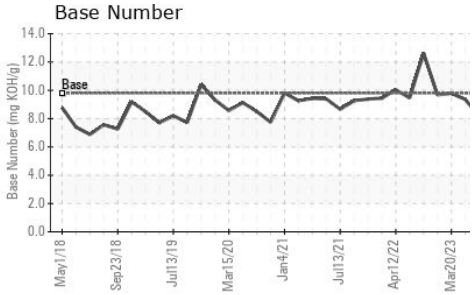
Aluminum (ppm)



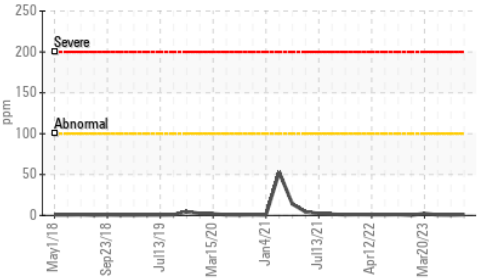
Chromium (ppm)



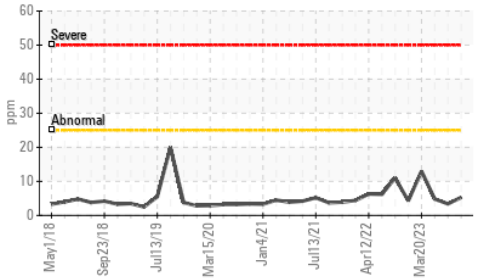
Base Number



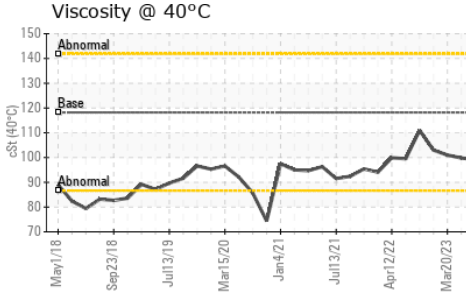
Copper (ppm)



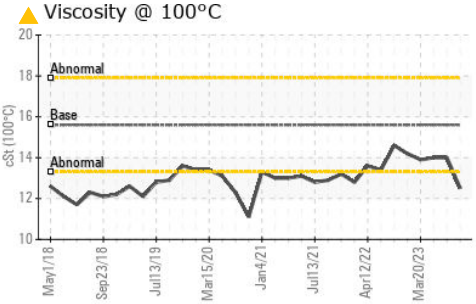
Silicon (ppm)



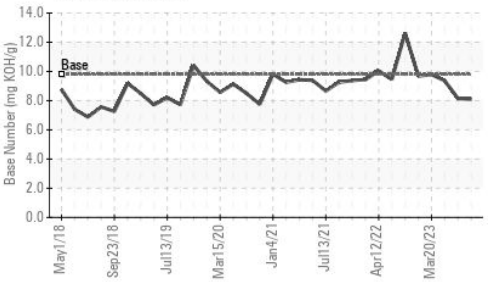
Viscosity @ 40°C



▲ Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0073967 **Received** : 18 Jul 2023
Lab Number : 02570560 **Diagnosed** : 19 Jul 2023
Unique Number : 5607606 **Diagnostician** : Wes Davis
Test Package : MOB 2 (Additional Tests: FuelDilution, Glycol, KV40, PercentFuel, 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.

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