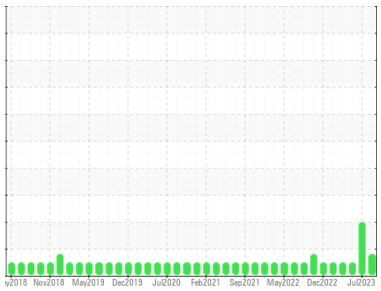
OIL ANALYSIS REPORT

Sample Rating Trend



FUEL

Machine Id
6023
Component
Rear Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (19 LTR)

DIAGNOSIS

Recommendation

Nous avons pris note que la vidange d`huile a été effectuée au moment de l`échantillonnage. Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Aucune autre mesure corrective n'est recommandée pour l'instant.

Wear

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

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. Légère dilution de carburant dans l'huile. Aucun autre contaminant n'a été détecté dans l'huile.

Fluid Condition

Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l'huile. L'état de l'huile permet d'en prolonger l'utilisation.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC0073445**	PC0074553	PC0073869
Sample Date		Client Info		**14 Aug 2023**	07 Jul 2023	22 May 2023
Machine Age	kms	Client Info		**0**	465167	0
Oil Age	kms	Client Info		**6239**	7386	7972
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**MARGINAL**	ABNORMAL	NORMAL

CONTAMINATION	method	limit/base	current	history1	history2
Glycol	WC Method		**NEG**	0.0	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>130	**26**	19	34
Chromium	ppm	ASTM D5185(m)	>10	**<1**	0	1
Nickel	ppm	ASTM D5185(m)	>4	**0**	0	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	<1
Silver	ppm	ASTM D5185(m)	>2	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>20	**2**	2	3
Lead	ppm	ASTM D5185(m)	>20	**0**	<1	0
Copper	ppm	ASTM D5185(m)	>125	**<1**	<1	<1
Tin	ppm	ASTM D5185(m)	>4	**0**	<1	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**	57	3
Barium	ppm	ASTM D5185(m)	0	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	60	**58**	65	60
Manganese	ppm	ASTM D5185(m)	0	**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	**957**	490	963
Calcium	ppm	ASTM D5185(m)	1070	**1025**	1166	1116
Phosphorus	ppm	ASTM D5185(m)	1150	**1021**	716	1096
Zinc	ppm	ASTM D5185(m)	1270	**1171**	731	1202
Sulfur	ppm	ASTM D5185(m)	2060	**2443**	2372	2569
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**4**	24	5
Sodium	ppm	ASTM D5185(m)		**8**	54	2
Potassium	ppm	ASTM D5185(m)	>20	**6**	7	<1
Fuel	%	ASTM D7593*	>3.0	▲ **1.7**	▲ 3.5	<1.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	**2.5**	0	2.2
Nitration	Abs/cm	ASTM D7624*	>20	**9.6**	12.8	9.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	**24.8**	25.4	23.0

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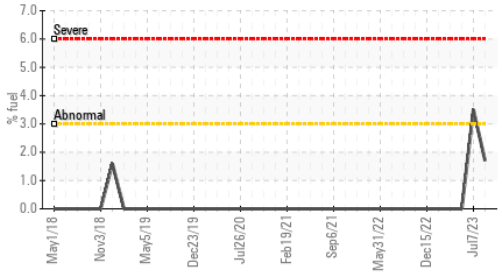
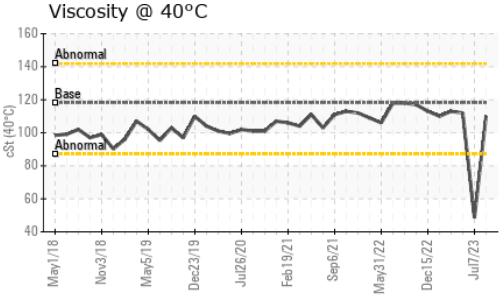
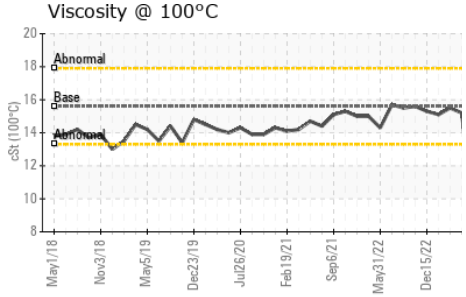
Fuel Dilution



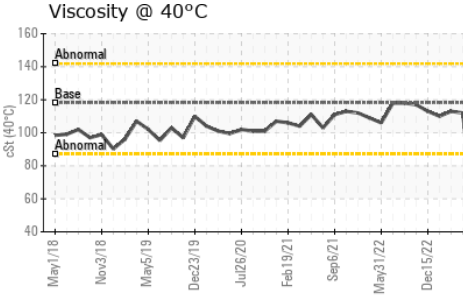
Viscosity @ 40°C



Viscosity @ 100°C



Viscosity @ 40°C



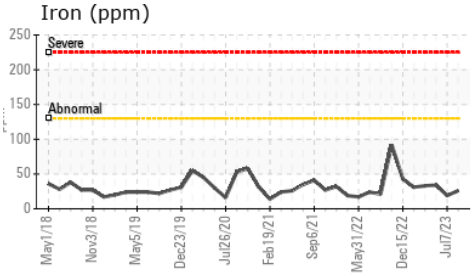
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**15.4**	17.2	15.6
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	**8.99**	3.97	9.27

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

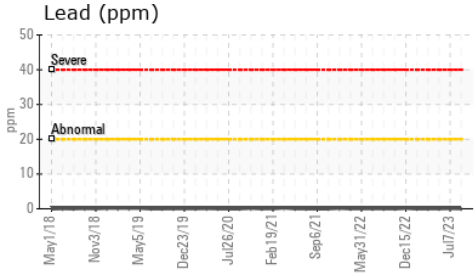
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	**110**	▲ 48.5	112
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	**15.3**	▲ 9	15.2
Viscosity Index (VI)	Scale	ASTM D2270*	139	**146**	▲ 168	141

GRAPHS

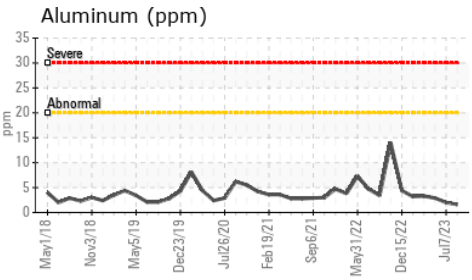
Iron (ppm)



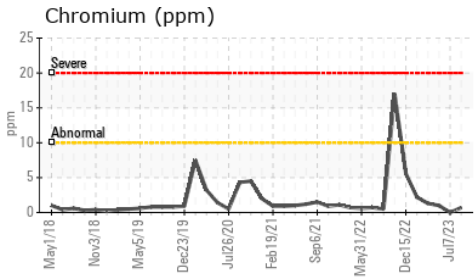
Lead (ppm)



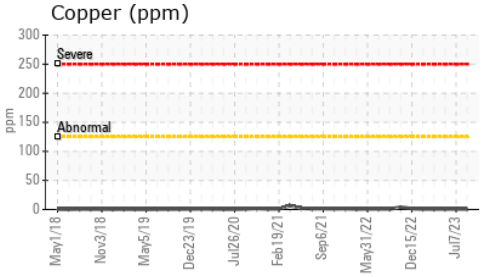
Aluminum (ppm)



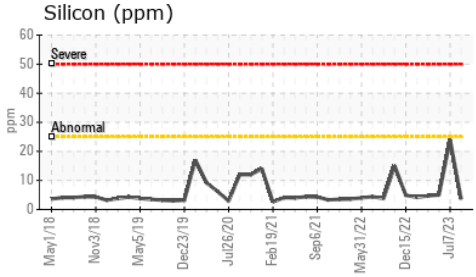
Chromium (ppm)



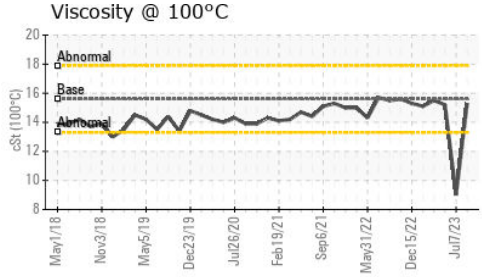
Copper (ppm)



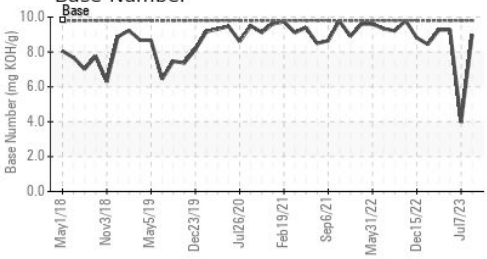
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0073445 **Received** : 22 Aug 2023
Lab Number : 02577342 **Diagnosed** : 23 Aug 2023
Unique Number : 5630402 **Diagnostician** : Wes Davis
Test Package : MOB 2 (Additional Tests: 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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