



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
21-33
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON UHP 5W40 (--- GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0074243	PC0073778	PC0049806
Sample Date		Client Info		01 May 2024	14 Sep 2023	14 Feb 2023
Machine Age	hrs	Client Info		3830	3288	2955
Oil Age	hrs	Client Info		383	319	350
Filter Age	hrs	Client Info		383	319	350
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

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

Iron	ppm	ASTM D5185(m)	>100	18	19	13
Chromium	ppm	ASTM D5185(m)	>6	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>30	7	10	14
Lead	ppm	ASTM D5185(m)	>10	1	1	<1
Copper	ppm	ASTM D5185(m)	>150	12	4	4
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

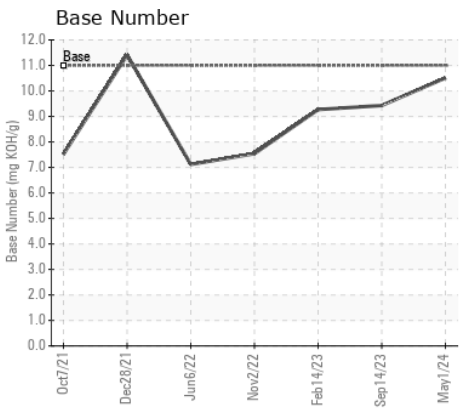
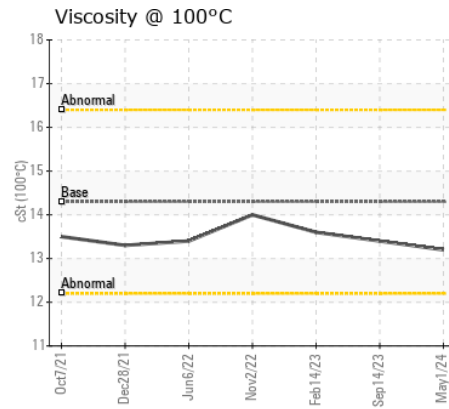
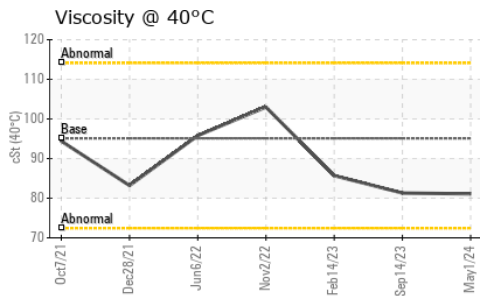
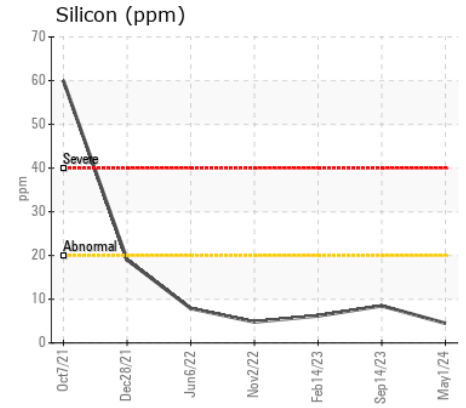
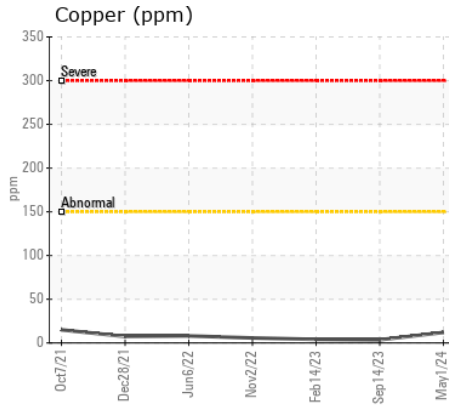
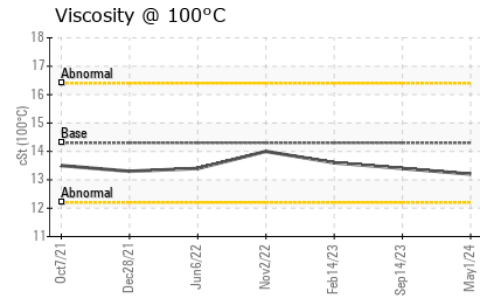
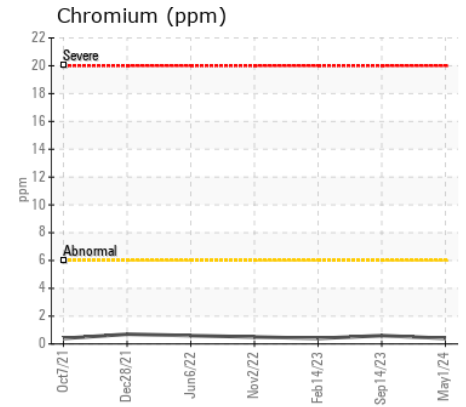
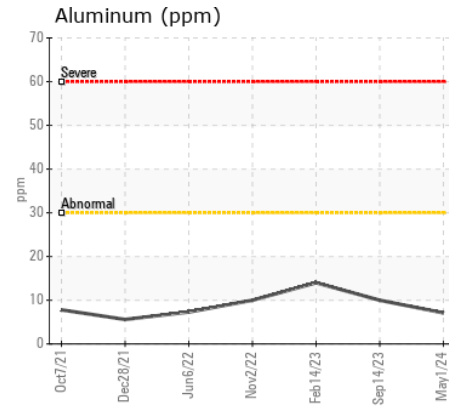
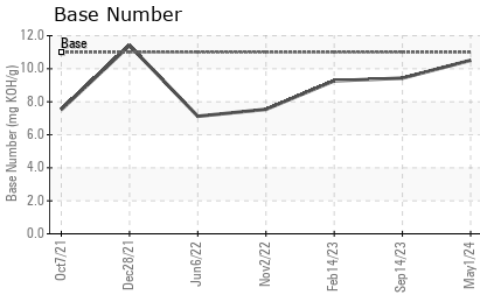
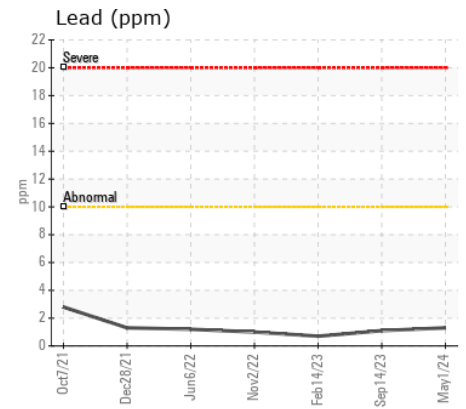
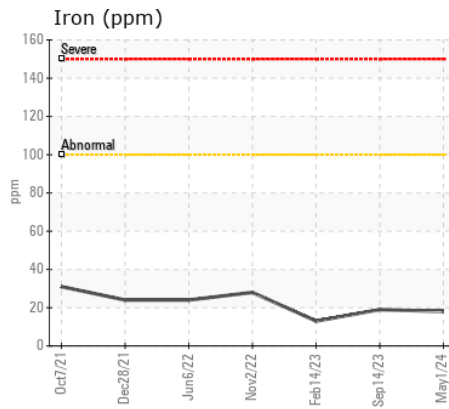
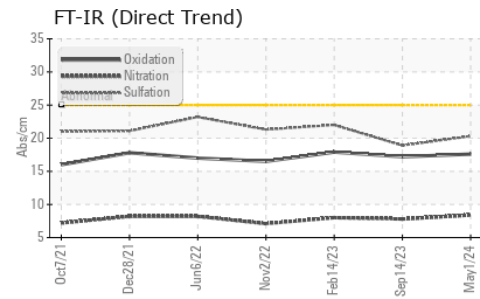
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>20	4	8	6
Potassium	ppm	ASTM D5185(m)	>20	12	17	22
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.1	0.7	0
Nitration	Abs/cm	ASTM D7624*	>20	8.4	7.8	8.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.3	18.9	22.0
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185(m)		4	6	4
Boron	ppm	ASTM D5185(m)	65	44	34	44
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	65	53	58	52
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1160	982	1010	966
Calcium	ppm	ASTM D5185(m)	820	951	832	982
Phosphorus	ppm	ASTM D5185(m)	1160	963	943	1071
Zinc	ppm	ASTM D5185(m)	1260	1159	1137	1174
Sulfur	ppm	ASTM D5185(m)	3000	2670	2594	2853
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.6	17.2	17.9
Base Number (BN)	mg KOH/g	ASTM D2896*	11.0	10.51	9.43	9.27
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	81.1	81.3	85.7
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	13.2	13.4	13.6
Viscosity Index (VI)	Scale	ASTM D2270*	169	164	167	161



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0074243 **Received** : 07 May 2024
Lab Number : 02633807 **Tested** : 07 May 2024
Unique Number : 5774960 **Diagnosed** : 07 May 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: KV40, 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.

BETONNIERE LA TUQUE
 2990 PLACE INDUSTRIELLE
 LA TUQUE, QC
 CA G9X 4T1
 Contact: Shop Manager
 sylvain.blais@betonit.com
 T: (819)523-7179
 F: (819)523-6931