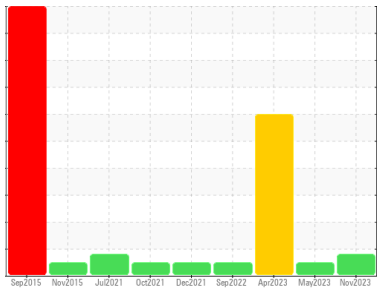
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
259
Component
Diesel Engine
Fluid
PETRO CANADA DURON UHP 5W30 (40 GAL)

DIAGNOSIS

Recommendation
Confirm the source of the lubricant being utilized for top-up/fill. Échantillonner de nouveau l`équipement au prochain intervalle de vidange afin d`en surveiller la condition.

Wear
L`absence significative d`autres métaux d`usure indique que la présence du cuivre n`est pas due à de l`usure (i.e. système de refroidissement). Les taux d`usure de tous les autres 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. Il n`y a aucun indice de contamination dans l`huile.

Fluid Condition
Les niveaux d`additifs indiquent l`ajout d`une autre marque ou d`un autre type d`huile. 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		**WC0846906**	WC0820375	WC0776080
Sample Date		Client Info		**23 Nov 2023**	05 May 2023	12 Apr 2023
Machine Age	kms	Client Info		**869271**	832074	830378
Oil Age	kms	Client Info		**37197**	1696	23691
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ATTENTION**	NORMAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	**59**	11	47
Chromium	ppm	ASTM D5185(m)	>20	**10**	3	12
Nickel	ppm	ASTM D5185(m)	>2	**<1**	0	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	<1	<1
Silver	ppm	ASTM D5185(m)	>2	**<1**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>30	**54**	15	69
Lead	ppm	ASTM D5185(m)	>30	**5**	3	12
Copper	ppm	ASTM D5185(m)	>30	▲ **217**	147	⬢ 493
Tin	ppm	ASTM D5185(m)	>15	**3**	0	<1
Antimony	ppm	ASTM D5185(m)		**0**	0	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

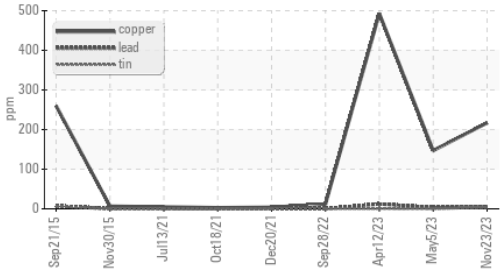
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	**24**	50	27
Barium	ppm	ASTM D5185(m)	0	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	64	**49**	57	59
Manganese	ppm	ASTM D5185(m)	0	**1**	<1	2
Magnesium	ppm	ASTM D5185(m)	1160	**648**	1060	1026
Calcium	ppm	ASTM D5185(m)	820	**1513**	915	1018
Phosphorus	ppm	ASTM D5185(m)	1160	**967**	1108	1103
Zinc	ppm	ASTM D5185(m)	1260	**1164**	1178	1215
Sulfur	ppm	ASTM D5185(m)	3000	**2293**	2914	2721
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	**7**	5	10
Sodium	ppm	ASTM D5185(m)		**6**	4	8
Potassium	ppm	ASTM D5185(m)	>20	**71**	17	88

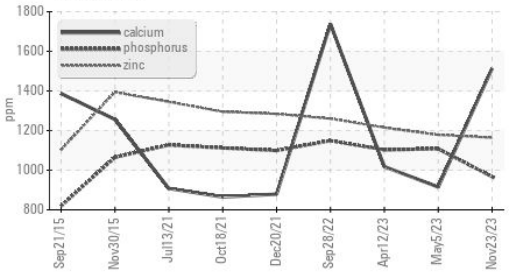
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**1**	0	0.5
Nitration	Abs/cm	ASTM D7624*	>20	**11.9**	7.0	11.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	**25.3**	19.5	21.6

OIL ANALYSIS REPORT

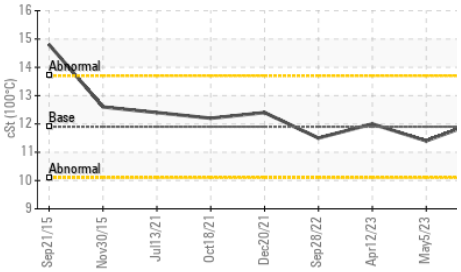
Non-ferrous Metals



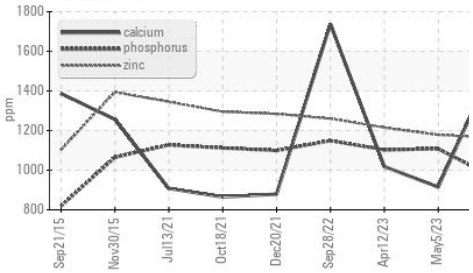
Additives



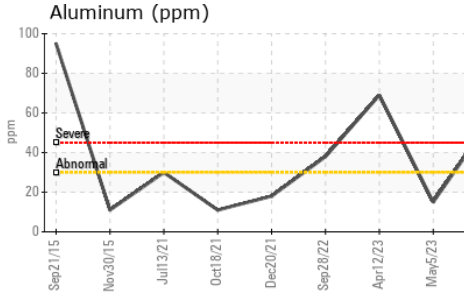
Viscosity @ 100°C



Additives



Aluminum (ppm)



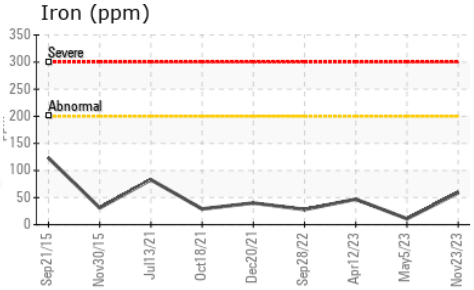
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**24.2**	16.4	19.6
Base Number (BN)	mg KOH/g	ASTM D2896*	11.0	**8.76**	9.94	8.87

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

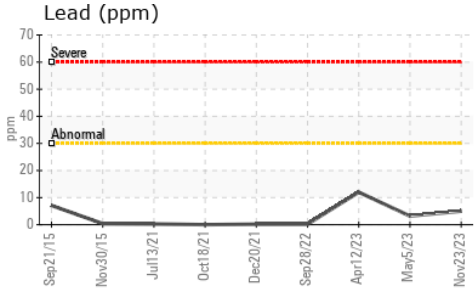
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	11.9	**12.1**	11.4	12.0

GRAPHS

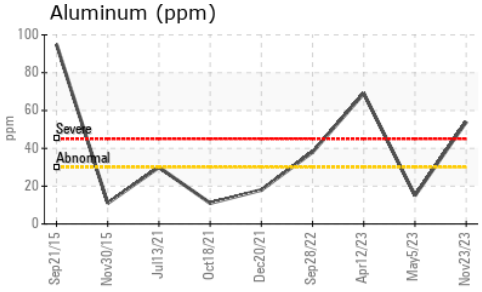
Iron (ppm)



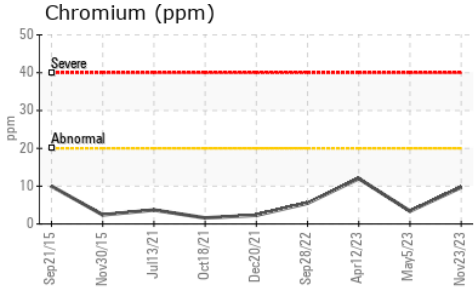
Lead (ppm)



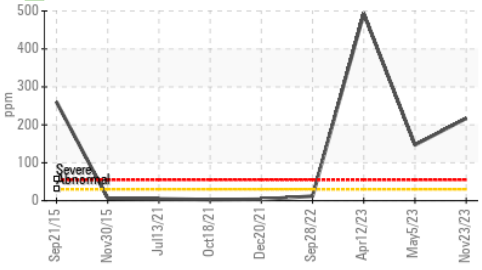
Aluminum (ppm)



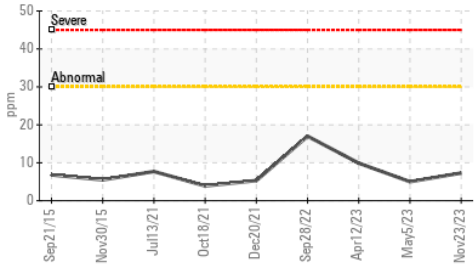
Chromium (ppm)



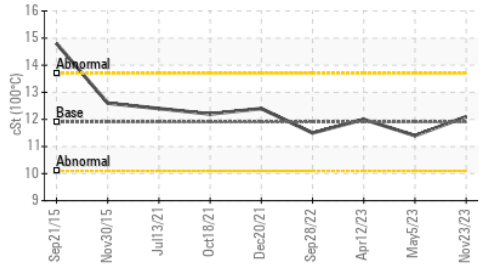
Copper (ppm)



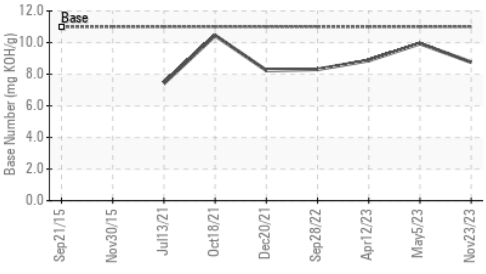
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0846906
Lab Number : 02606184
Unique Number : 5707270
Test Package : MOB 2
Recieved : 03 Jan 2024
Diagnosed : 04 Jan 2024
Diagnostician : Kevin Marson

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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