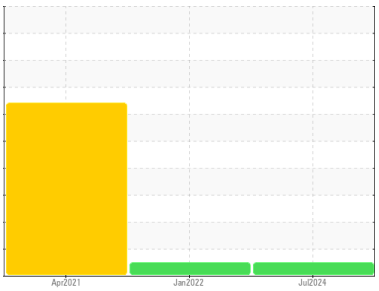
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
DEPARTMENT OF NATIONAL DEFENCE [323985]
Machine Id
873901513309
Component
Diesel Engine
Fluid
SAE 10W40 (--- GAL)

DIAGNOSIS

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

Wear
Les taux de métaux sont typiques pour la période de rodage d'un nouveau composant.

Contamination
Il n`y a aucun indice de contamination dans l'huile.

Fluid Condition
L'état de l'huile est acceptable pour la durée de service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WA0020760**	WA0017410	WA0016395
Sample Date		Client Info		**10 Jul 2024**	26 Jan 2022	07 Apr 2021
Machine Age	hrs	Client Info		**7**	6	0
Oil Age	hrs	Client Info		**0**	6	0
Oil Changed		Client Info		**N/A**	Changed	N/A
Sample Status				**NORMAL**	NORMAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	**<1.0**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	0.0

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	**2**	9	▲ 114
Chromium	ppm	ASTM D5185(m)	>20	**0**	<1	4
Nickel	ppm	ASTM D5185(m)	>4	**0**	<1	3
Titanium	ppm	ASTM D5185(m)		**0**	<1	1
Silver	ppm	ASTM D5185(m)	>3	**<1**	<1	1
Aluminum	ppm	ASTM D5185(m)	>20	**1**	6	● 42
Lead	ppm	ASTM D5185(m)	>40	**0**	1	5
Copper	ppm	ASTM D5185(m)	>330	**2**	7	31
Tin	ppm	ASTM D5185(m)	>15	**0**	1	3
Antimony	ppm	ASTM D5185(m)		**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	<1
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	<1	<1

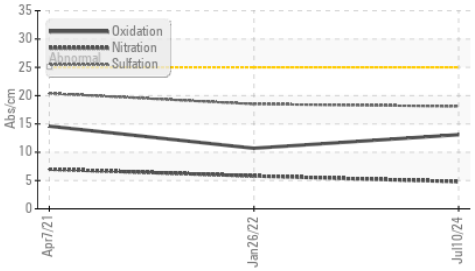
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**9**	18	17
Barium	ppm	ASTM D5185(m)		**<1**	<1	2
Molybdenum	ppm	ASTM D5185(m)		**50**	15	27
Manganese	ppm	ASTM D5185(m)		**0**	<1	2
Magnesium	ppm	ASTM D5185(m)		**743**	51	264
Calcium	ppm	ASTM D5185(m)		**1235**	2232	2098
Phosphorus	ppm	ASTM D5185(m)		**923**	933	959
Zinc	ppm	ASTM D5185(m)		**1108**	1029	1199
Sulfur	ppm	ASTM D5185(m)		**2594**	3066	3411
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**4**	13	▲ 94
Sodium	ppm	ASTM D5185(m)	>401	**5**	8	6
Potassium	ppm	ASTM D5185(m)	>20	**<1**	3	7

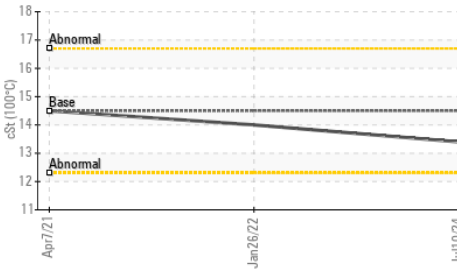
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0**	0	0.7
Nitration	Abs/cm	ASTM D7624*	>20	**4.8**	5.8	7.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	**18.1**	18.5	20.4

OIL ANALYSIS REPORT

FT-IR (Direct Trend)



Viscosity @ 100°C



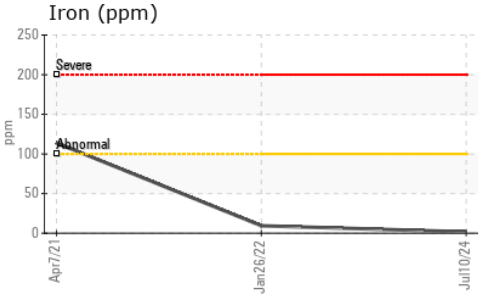
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**13.1**	10.7	14.6

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

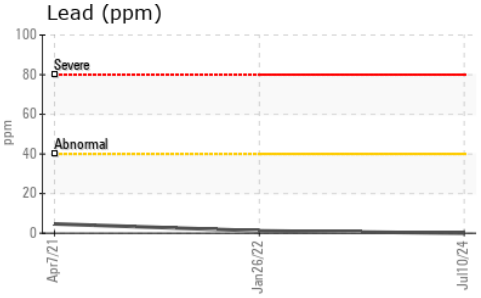
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	**13.4**	14.0	14.5

GRAPHS

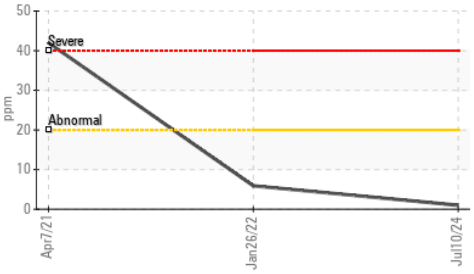
Iron (ppm)



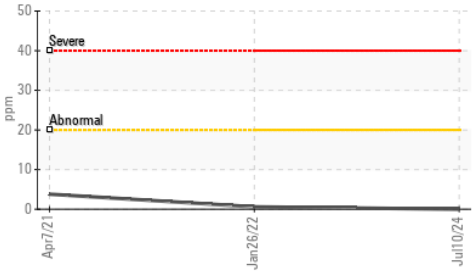
Lead (ppm)



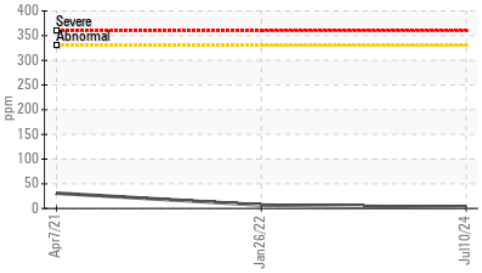
Aluminum (ppm)



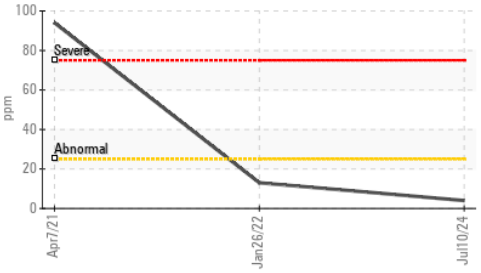
Chromium (ppm)



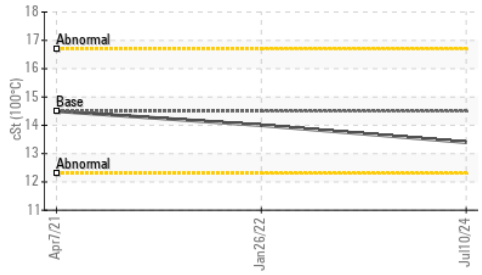
Copper (ppm)



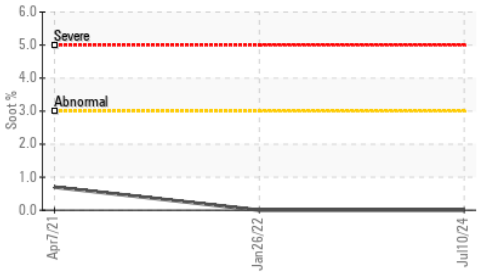
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0020760 **Received** : 12 Jul 2024
Lab Number : 02647608 **Tested** : 12 Jul 2024
Unique Number : 5813160 **Diagnosed** : 12 Jul 2024 - Wes Davis
Test Package : MOB 1

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.

Wajax Limited
2997 AV. WATT
Quebec, QC
CA G1X 3W1
Contact: Steve Racine
sracine@wajax.com
T:
F: (418)651-4448