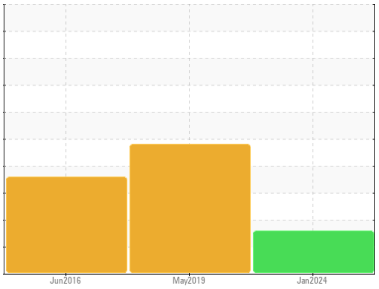
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
[6100109047]
Machine Id
06D0600403 OIL PAN
Component
Diesel Engine
Fluid
CASTROL DIESELALL PLUS SAE 40 (--- GAL)

DIAGNOSIS

Recommendation
Nous avons pris note que la vidange d`huile a été effectuée au moment de l`échantillonnage. Confirm the source of the lubricant being utilized for top-up/fill. Nous vous recommandons d`échantillonner de nouveau dès que possible afin de contrôler la situation. Aucune autre mesure corrective n`est recommandée pour l`instant.

Wear
Usure de piston.

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

Fluid Condition
Les niveaux d`additifs indiquent l`ajout d`une autre marque ou d`un autre type d`huile. l`huile n'est plus en état de service en raison d'une usure anomale et/ou sévère.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WA0020757**	WA0014435	WA0009337
Sample Date		Client Info		**03 Jan 2024**	13 May 2019	21 Jun 2016
Machine Age	days	Client Info		**0**	0	0
Oil Age	days	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	N/A	N/A
Sample Status				**ABNORMAL**	SEVERE	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	**34**	54	58
Chromium	ppm	ASTM D5185(m)	>20	**<1**	1	1
Nickel	ppm	ASTM D5185(m)	>2	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	0
Silver	ppm	ASTM D5185(m)	>2	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>30	**2**	2	2
Lead	ppm	ASTM D5185(m)	>30	**10**	23	10
Copper	ppm	ASTM D5185(m)	>30	**7**	28	6
Tin	ppm	ASTM D5185(m)	>15	▲ **21**	▲ 44	▲ 28
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**	<1	<1

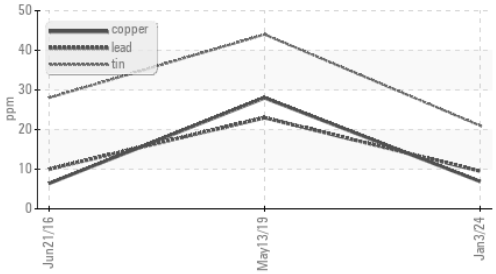
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**<1**	4	3
Barium	ppm	ASTM D5185(m)		**0**	<1	<1
Molybdenum	ppm	ASTM D5185(m)		**104**	4	8
Manganese	ppm	ASTM D5185(m)		**<1**	4	1
Magnesium	ppm	ASTM D5185(m)		**13**	458	182
Calcium	ppm	ASTM D5185(m)		**2404**	1520	1892
Phosphorus	ppm	ASTM D5185(m)		**946**	915	820
Zinc	ppm	ASTM D5185(m)		**1012**	1057	988
Sulfur	ppm	ASTM D5185(m)		**4697**	3880	2803
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	**25**	▲ 47	14
Sodium	ppm	ASTM D5185(m)		**18**	17	3
Potassium	ppm	ASTM D5185(m)	>20	**6**	10	2
Fuel	%	ASTM D7593*	>3.0	▲ **1.9**	⬢ 5.1	⬢ 6.0
Glycol	%	ASTM D7922*		**0.0**	NEG	NEG

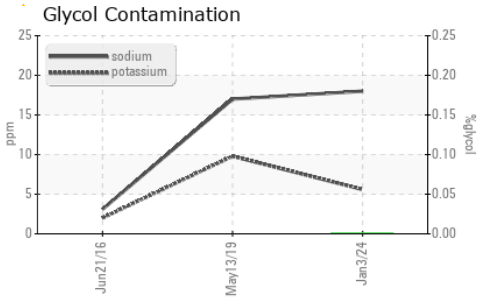
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0**	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	**3.8**	5.9	5.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	**13.7**	16.8	17.6

OIL ANALYSIS REPORT

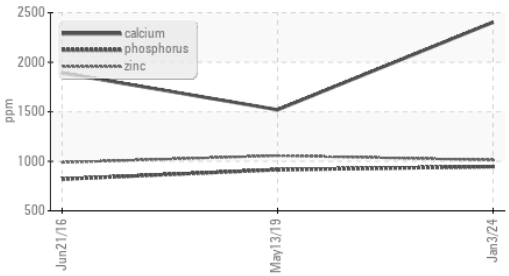
Non-ferrous Metals



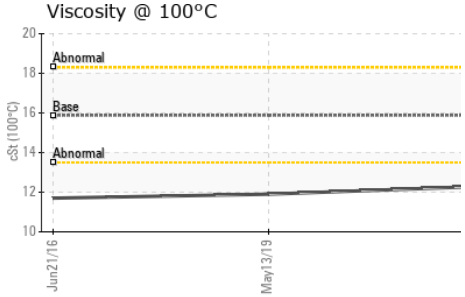
Glycol Contamination



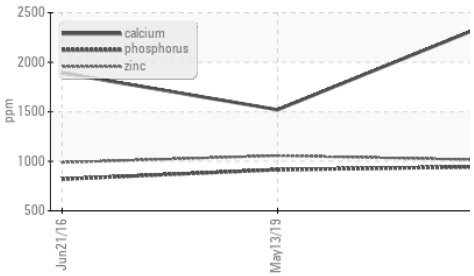
Additives



Viscosity @ 100°C



Additives



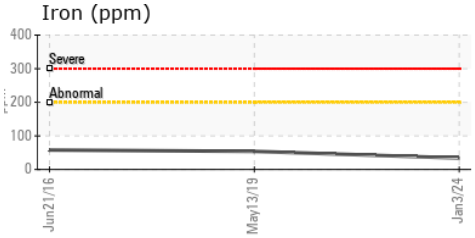
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**6.2**	11.2	10.9

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	---	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	---	---
Precipitate	scalar	Visual*	NONE	**NONE**	---	---
Silt	scalar	Visual*	NONE	**NONE**	---	---
Debris	scalar	Visual*	NONE	**VLITE**	---	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	---	---
Appearance	scalar	Visual*	NORML	**NORML**	---	---
Odor	scalar	Visual*	NORML	**NORML**	---	---
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

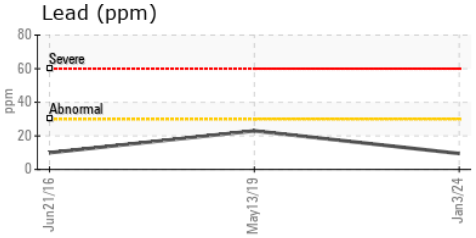
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.88	**12.3**	▲ 11.9	▲ 11.7

GRAPHS

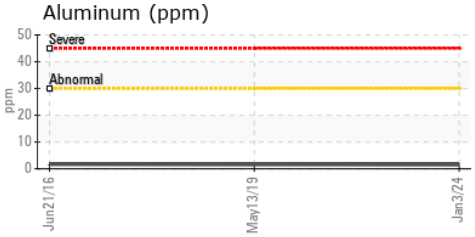
Iron (ppm)



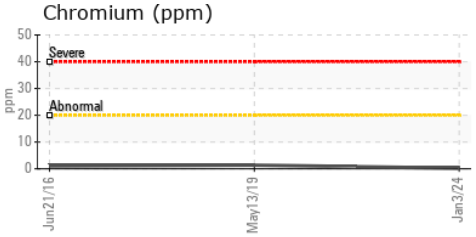
Lead (ppm)



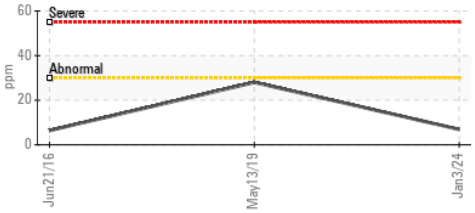
Aluminum (ppm)



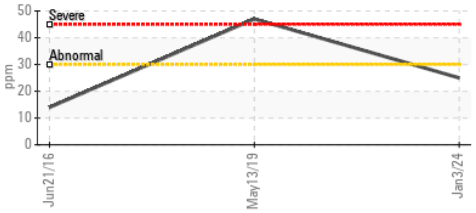
Chromium (ppm)



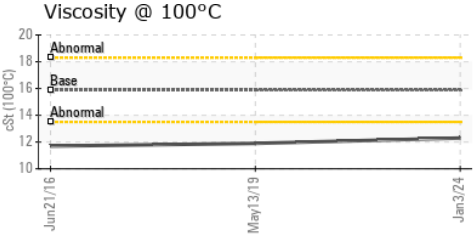
Copper (ppm)



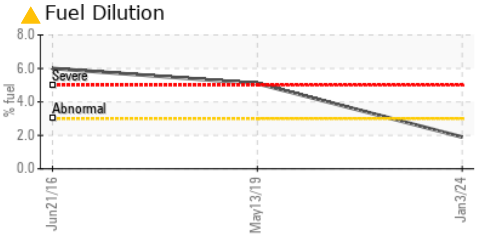
Silicon (ppm)



Viscosity @ 100°C



Fuel Dilution



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0020757 **Recieved** : 04 Jan 2024
Lab Number : 02606461 **Diagnosed** : 09 Jan 2024
Unique Number : 5707547 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: BottomAnalysis, FILTERPATCH, Glycol, PercentFuel, Visual)

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