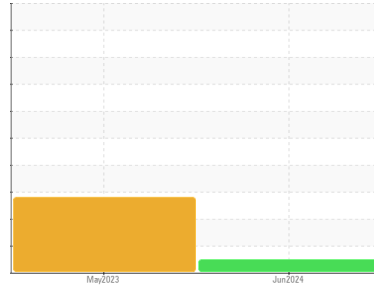


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
MACK DEFENCE
Machine Id
438670
Component
Diesel Engine
Fluid
CASTROL 15W40 (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

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

Contamination

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

Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WA0021267	WA0020032	---
Sample Date	Client Info			13 Jun 2024	31 May 2023	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

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

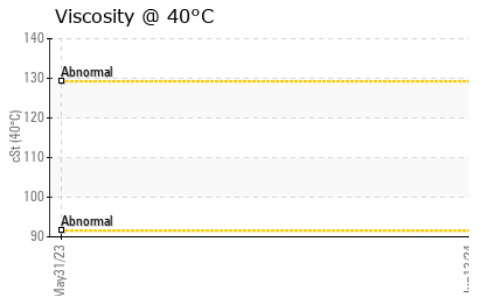
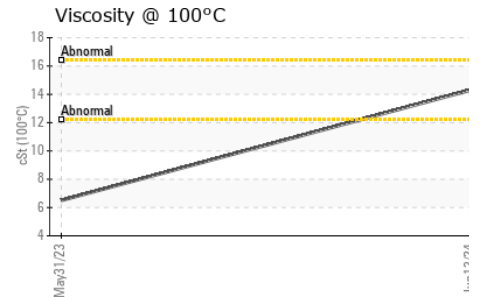
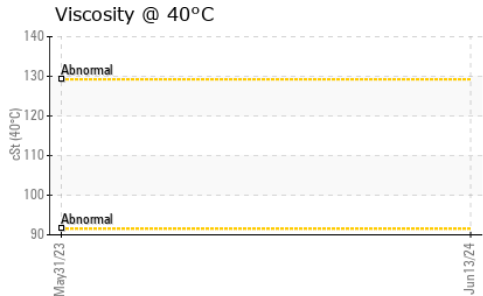
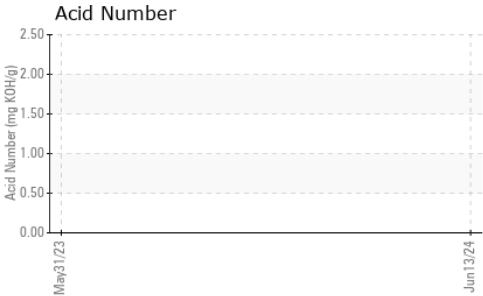
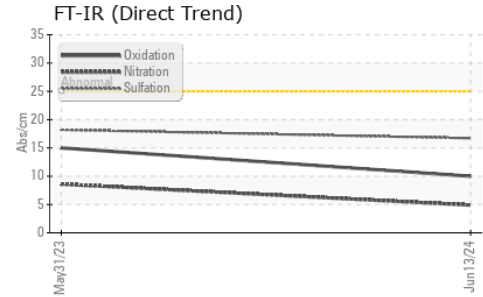
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	4	16	---
Chromium	ppm	ASTM D5185(m)	>20	0	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<1	3	---
Titanium	ppm	ASTM D5185(m)		<1	<1	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	1	6	---
Lead	ppm	ASTM D5185(m)	>40	<1	2	---
Copper	ppm	ASTM D5185(m)	>330	2	46	---
Tin	ppm	ASTM D5185(m)	>15	<1	2	---
Antimony	ppm	ASTM D5185(m)		0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		10	84	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		9	6	---
Manganese	ppm	ASTM D5185(m)		<1	1	---
Magnesium	ppm	ASTM D5185(m)		119	517	---
Calcium	ppm	ASTM D5185(m)		2090	1011	---
Phosphorus	ppm	ASTM D5185(m)		868	643	---
Zinc	ppm	ASTM D5185(m)		994	654	---
Sulfur	ppm	ASTM D5185(m)		2957	2320	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	▲ 28	---
Sodium	ppm	ASTM D5185(m)	>406	2	7	---
Potassium	ppm	ASTM D5185(m)	>20	<1	22	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	4.9	8.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.7	18.2	---

OIL ANALYSIS REPORT

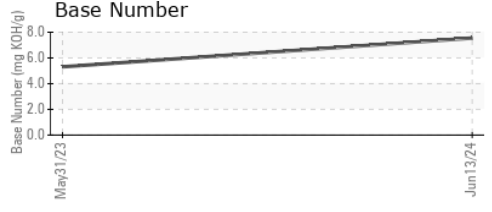
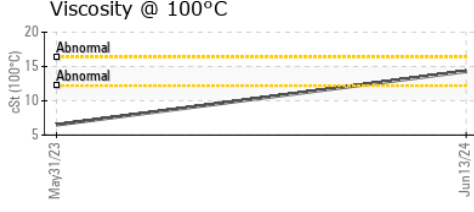
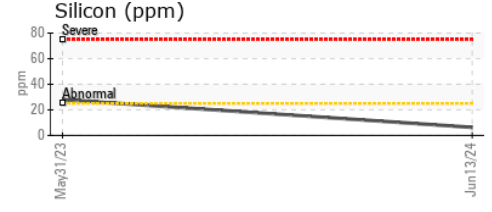
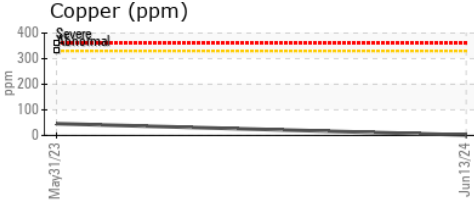
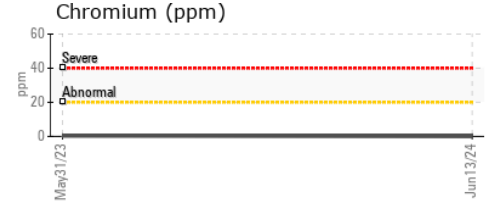
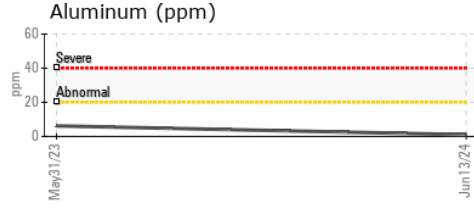
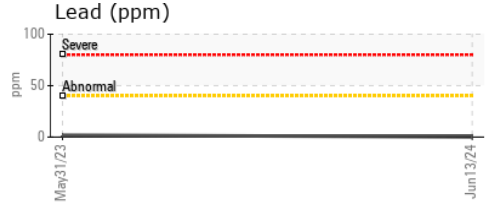
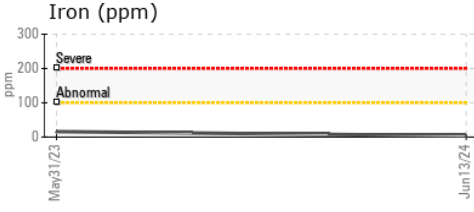


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	10.0	15.0	---
Acid Number (AN)	mg KOH/g	ASTM D974*		2.32	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		7.55	5.31	---

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	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Free Water	scalar	Visual*		NEG	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		104	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		14.3	▲ 6.5	---
Viscosity Index (VI)	Scale	ASTM D2270*		140	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021267 **Received** : 17 Jun 2024
Lab Number : **02642304** **Tested** : 18 Jun 2024
Unique Number : 5799843 **Diagnosed** : 18 Jun 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: KV40, TAN Auto, TAN Man, VI, Visual)

Wajax Limited
 2997 AV. WATT
 Quebec, QC
 CA G1X 3W1
 Contact: Steve Racine
 sracine@wajax.com

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.

T:
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