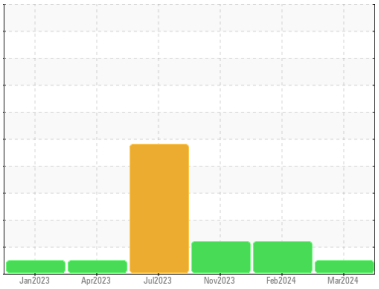
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
300-95
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 5W40 (--- 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. L'état de l'huile permet d'en prolonger l'utilisation.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC0079740**	PC0079742	PC0070762
Sample Date		Client Info		**02 Mar 2024**	06 Feb 2024	23 Nov 2023
Machine Age	hrs	Client Info		**4078**	3861	3533
Oil Age	hrs	Client Info		**488**	328	650
Oil Changed		Client Info		**Changed**	Not Changd	Changed
Sample Status				**NORMAL**	ABNORMAL	ABNORMAL

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**	0.0	0.0

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	**42**	21	16
Chromium	ppm	ASTM D5185(m)	>20	**<1**	1	<1
Nickel	ppm	ASTM D5185(m)	>2	**0**	<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)	>20	**10**	4	4
Lead	ppm	ASTM D5185(m)	>40	**2**	2	2
Copper	ppm	ASTM D5185(m)	>330	**1**	2	<1
Tin	ppm	ASTM D5185(m)	>15	**0**	<1	0
Antimony	ppm	ASTM D5185(m)		**0**	0	0
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)	250	**0**	3	6
Barium	ppm	ASTM D5185(m)	10	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	100	**65**	61	55
Manganese	ppm	ASTM D5185(m)		**0**	0	0
Magnesium	ppm	ASTM D5185(m)	450	**1051**	978	874
Calcium	ppm	ASTM D5185(m)	3000	**1134**	1116	1068
Phosphorus	ppm	ASTM D5185(m)	1150	**1057**	998	896
Zinc	ppm	ASTM D5185(m)	1350	**1290**	1184	1040
Sulfur	ppm	ASTM D5185(m)	4250	**2493**	2671	2479
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**4**	4	5
Sodium	ppm	ASTM D5185(m)	>44	**2**	29	52
Potassium	ppm	ASTM D5185(m)	>20	**7**	▲ 55	▲ 99

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	**0.6**	0.3	0.3
Nitration	Abs/cm	ASTM D7624*	>20	**10.1**	8.5	7.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	**22.3**	20.8	20.4

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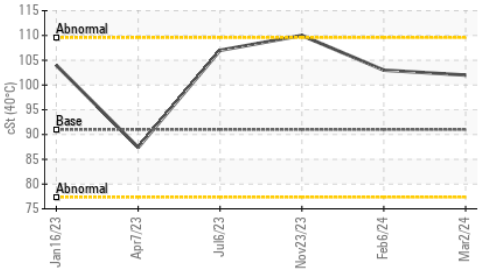
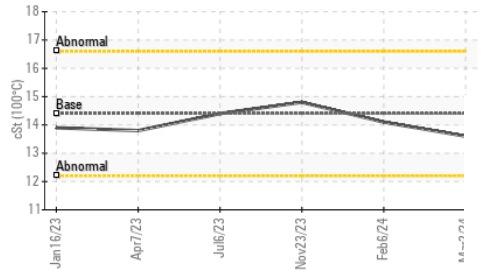
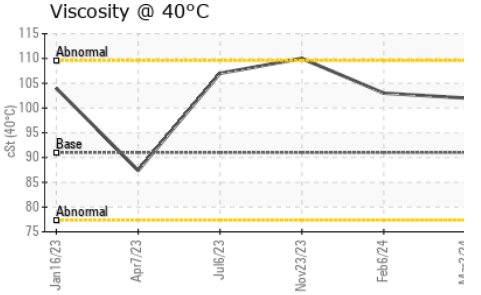
Viscosity @ 40°C



Viscosity @ 100°C



Viscosity @ 40°C



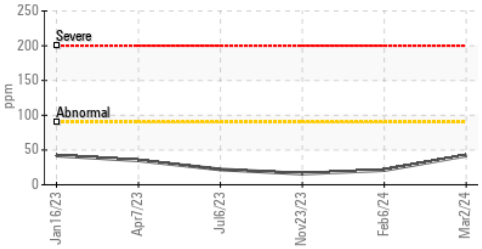
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**17.3**	15.9	15.7
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	**8.78**	10.56	9.08

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

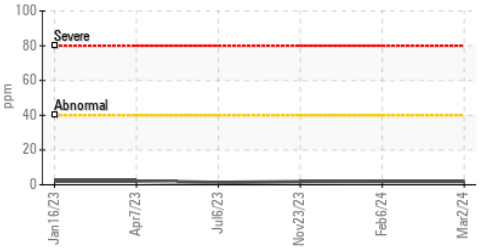
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	91	**102**	103	110
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	**13.6**	14.1	14.8
Viscosity Index (VI)	Scale	ASTM D2270*	164	**133**	139	139

GRAPHS

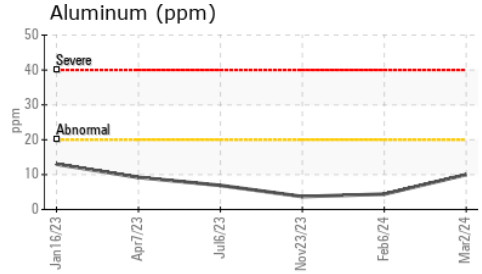
Iron (ppm)



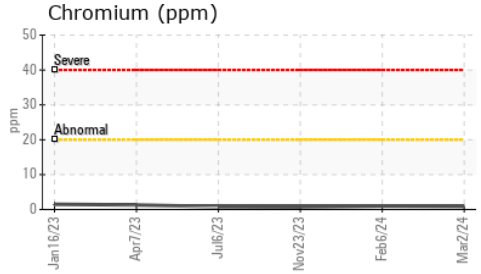
Lead (ppm)



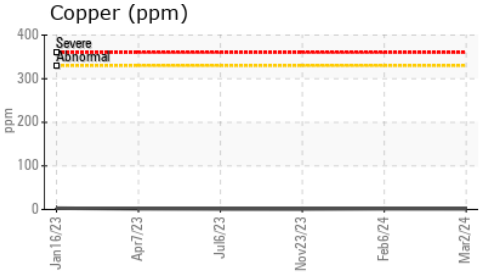
Aluminum (ppm)



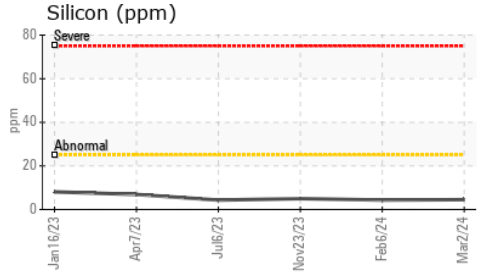
Chromium (ppm)



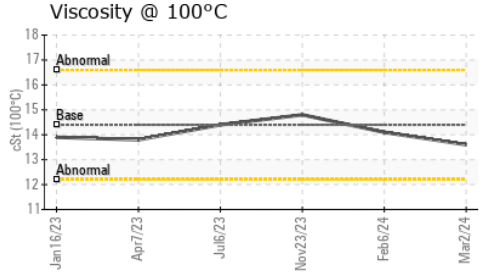
Copper (ppm)



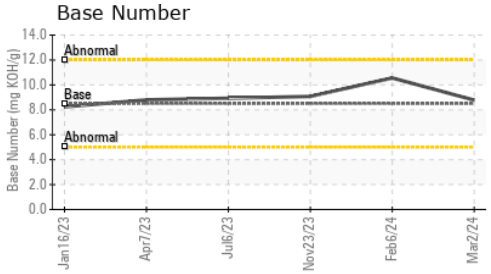
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0079740 **Received** : 20 Mar 2024
Lab Number : 02623379 **Tested** : 21 Mar 2024
Unique Number : 5748498 **Diagnosed** : 21 Mar 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.

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