



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**KENWORTH 20-23**  
 Component  
**Diesel Engine**  
 Fluid  
**APRIL SUPERFLO SUPERPRO RXL SYN 5W40 (--- GAL)**

## RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASF0000367</b>	ASF0000201	ASF0000340
Sample Date		Client Info		<b>12 Apr 2024</b>	02 Feb 2024	17 Aug 2023
Machine Age	hrs	Client Info		<b>1232</b>	752	1821
Oil Age	hrs	Client Info		<b>480</b>	450	475
Filter Age	hrs	Client Info		<b>0</b>	450	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

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

Iron	ppm	ASTM D5185(m)	>90	<b>12</b>	16	20
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	2
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>4</b>	4	25
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

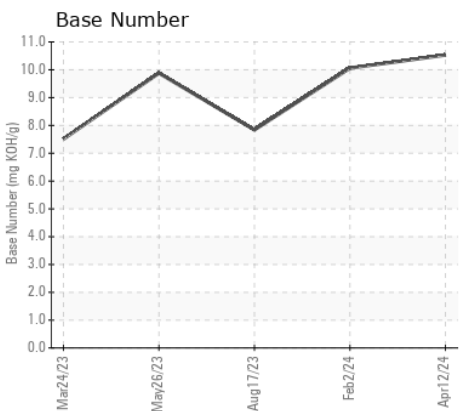
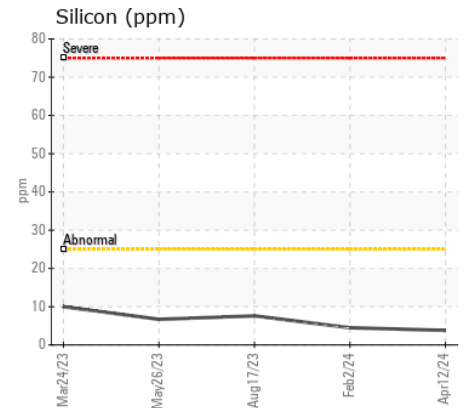
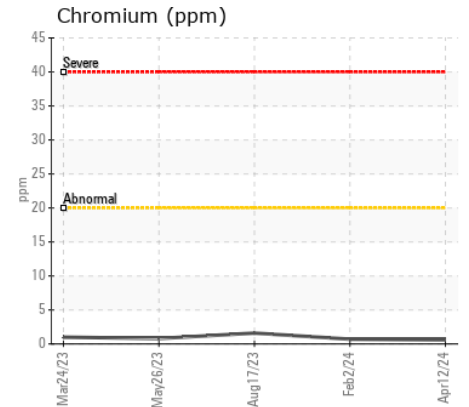
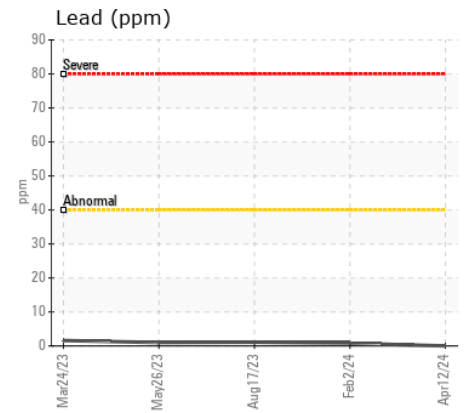
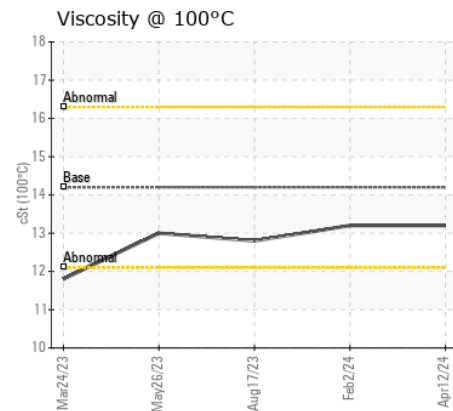
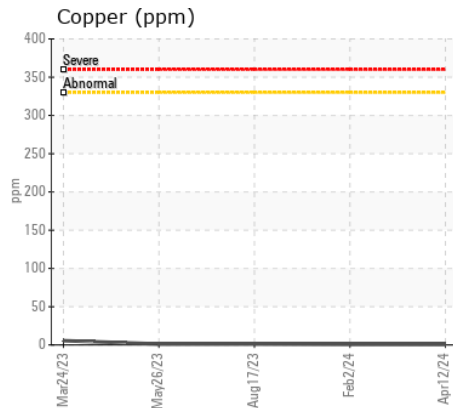
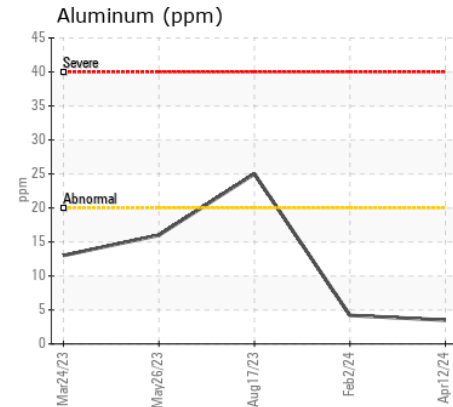
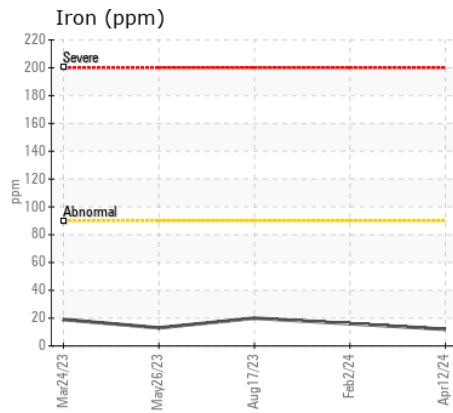
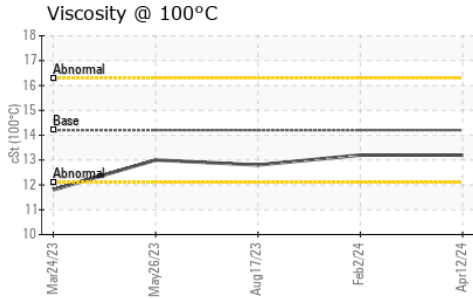
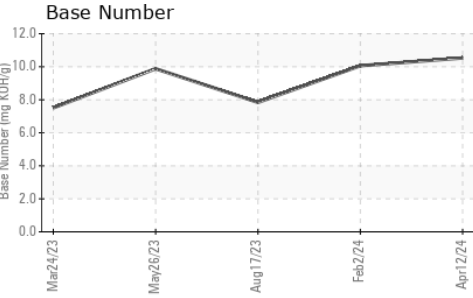
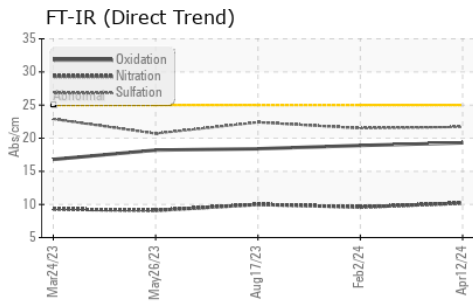
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	4	8
Potassium	ppm	ASTM D5185(m)	>20	<b>5</b>	7	76
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>6	<b>0.2</b>	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.2</b>	9.6	10.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.7</b>	21.5	22.4
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## 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.

Sodium	ppm	ASTM D5185(m)		<b>5</b>	4	6
Boron	ppm	ASTM D5185(m)		<b>28</b>	36	23
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>61</b>	59	59
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)		<b>1117</b>	1097	1071
Calcium	ppm	ASTM D5185(m)		<b>871</b>	822	872
Phosphorus	ppm	ASTM D5185(m)		<b>993</b>	993	1041
Zinc	ppm	ASTM D5185(m)		<b>1203</b>	1181	1187
Sulfur	ppm	ASTM D5185(m)		<b>2725</b>	2881	2744
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.3</b>	18.9	18.4
Base Number (BN)	mg KOH/g	ASTM D2896*		<b>10.53</b>	10.06	7.84
Visc @ 100°C	cSt	ASTM D7279(m)	14.2	<b>13.2</b>	13.2	12.8



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : ASF0000367  
**Lab Number** : 02629885  
**Unique Number** : 5763017  
**Test Package** : MOB 2  
**Received** : 18 Apr 2024  
**Tested** : 19 Apr 2024  
**Diagnosed** : 19 Apr 2024 - Wes Davis

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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