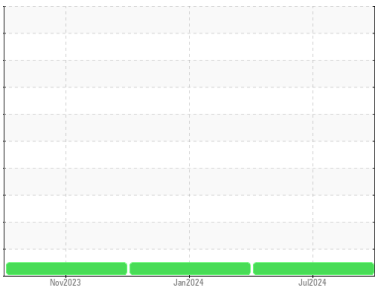
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
CONFEIL ANICINAPEK DE KITCISAKIK [6100319025]
Machine Id
JOHN DEERE 95090503925
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 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
L'état de l'huile est acceptable pour la durée de service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WA0021904**	WA0021071	WA0020329
Sample Date		Client Info		**03 Jul 2024**	09 Jan 2024	22 Nov 2023
Machine Age	hrs	Client Info		**5600**	1429	330
Oil Age	hrs	Client Info		**0**	500	0
Oil Changed		Client Info		**Changed**	Changed	N/A
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>2.1	**<1.0**	<1.0	0.9
Water		WC Method	>0.21	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>51	**3**	3	12
Chromium	ppm	ASTM D5185(m)	>11	**0**	0	0
Nickel	ppm	ASTM D5185(m)	>5	**0**	<1	0
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)	>3	**<1**	0	<1
Aluminum	ppm	ASTM D5185(m)	>31	**2**	3	4
Lead	ppm	ASTM D5185(m)	>26	**0**	<1	3
Copper	ppm	ASTM D5185(m)	>26	**<1**	<1	8
Tin	ppm	ASTM D5185(m)	>4	**0**	0	<1
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

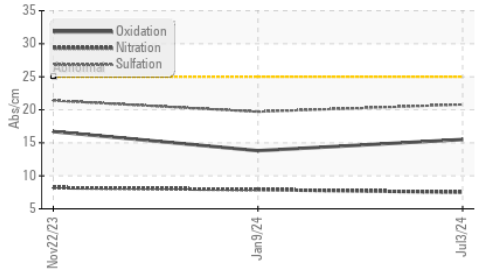
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**235**	125	231
Barium	ppm	ASTM D5185(m)		**0**	0	1
Molybdenum	ppm	ASTM D5185(m)		**259**	130	230
Manganese	ppm	ASTM D5185(m)		**<1**	0	<1
Magnesium	ppm	ASTM D5185(m)		**836**	429	745
Calcium	ppm	ASTM D5185(m)		**1377**	1859	1415
Phosphorus	ppm	ASTM D5185(m)		**856**	883	852
Zinc	ppm	ASTM D5185(m)		**1025**	1002	1012
Sulfur	ppm	ASTM D5185(m)		**2522**	2843	2449
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>22	**5**	4	6
Sodium	ppm	ASTM D5185(m)	>31	**3**	3	6
Potassium	ppm	ASTM D5185(m)	>20	**2**	3	6

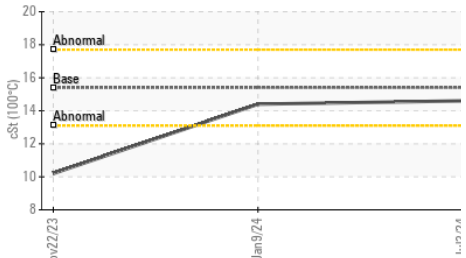
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**7.5**	7.9	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	**20.8**	19.7	21.4

OIL ANALYSIS REPORT

FT-IR (Direct Trend)



Viscosity @ 100°C



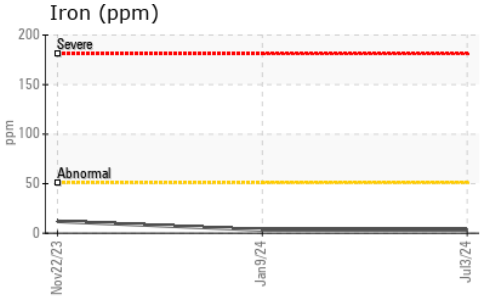
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**15.5**	13.8	16.7

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.21	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

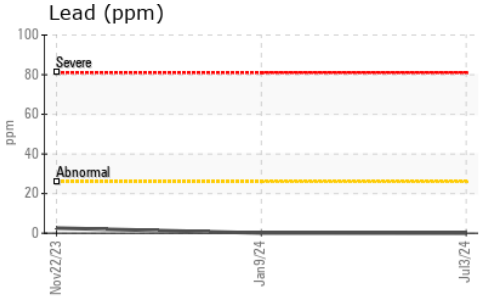
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	**14.6**	14.4	10.2

GRAPHS

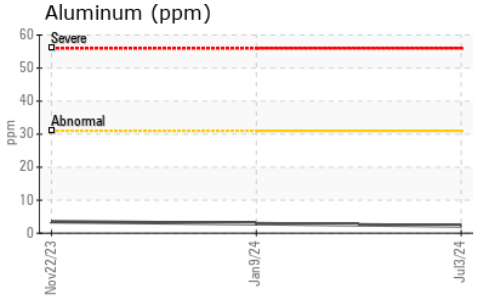
Iron (ppm)



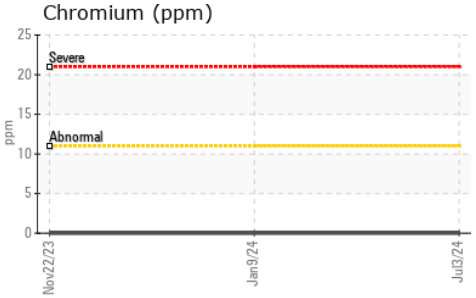
Lead (ppm)



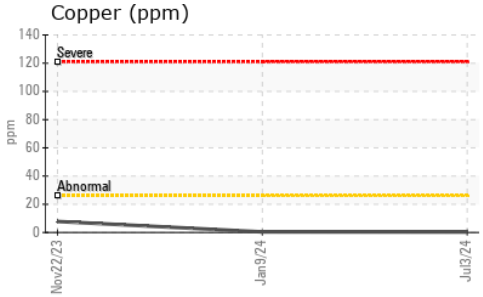
Aluminum (ppm)



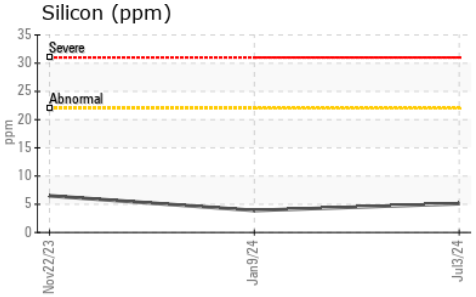
Chromium (ppm)



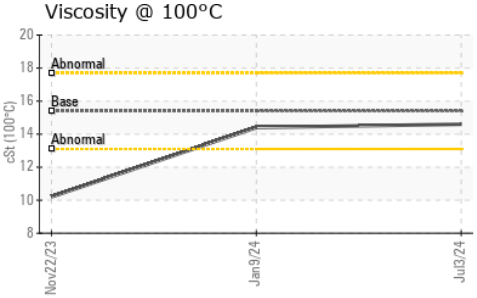
Copper (ppm)



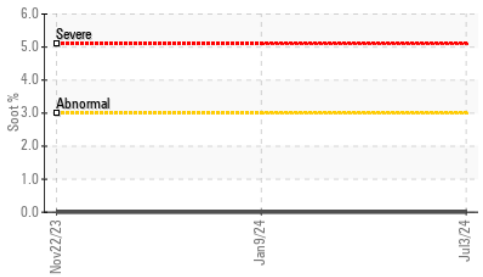
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021904
Lab Number : 02646119
Unique Number : 5811671
Test Package : MOB 1

Received : 08 Jul 2024
Tested : 08 Jul 2024
Diagnosed : 08 Jul 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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