MOB I

WAJAX POWER SYSTEMS / SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Area
GREATER SHEDIAC SEWERAGE [6100246557]
Machine Id
JOHN DEERE PE5030L011277
Component
Diesel Engine
Fluid
CASTROL 15W40 (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

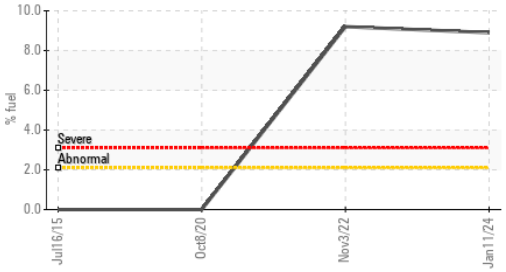
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

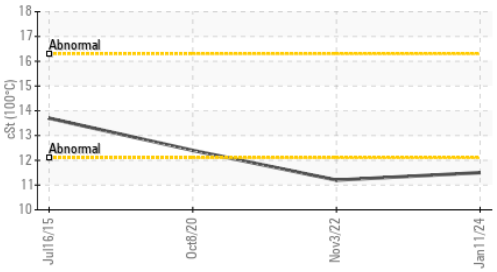
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0020808	WA0018632	WA0015527
Sample Date		Client Info		11 Jan 2024	03 Nov 2022	08 Oct 2020
Machine Age	hrs	Client Info		699	633	564
Oil Age	hrs	Client Info		66	33	31
Filter Age	hrs	Client Info		66	33	31
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	NORMAL
Iron	ppm	ASTM D5185(m)	>51	2	1	1
Chromium	ppm	ASTM D5185(m)	>11	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>31	1	2	<1
Lead	ppm	ASTM D5185(m)	>26	0	<1	<1
Copper	ppm	ASTM D5185(m)	>26	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>22	4	6	4
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
Fuel	%	ASTM D7593*	>2.1	8.9	9.2	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.3	7.6	4.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.0	17.5	18.7
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>406	1	2	2
Boron	ppm	ASTM D5185(m)		6	52	3
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		53	63	53
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		788	22	904
Calcium	ppm	ASTM D5185(m)		985	1972	993
Phosphorus	ppm	ASTM D5185(m)		887	951	969
Zinc	ppm	ASTM D5185(m)		1007	997	1170
Sulfur	ppm	ASTM D5185(m)		2412	2882	2647
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.0	12.5	13.5
Visc @ 100°C	cSt	ASTM D7279(m)		11.5	11.2	12.4

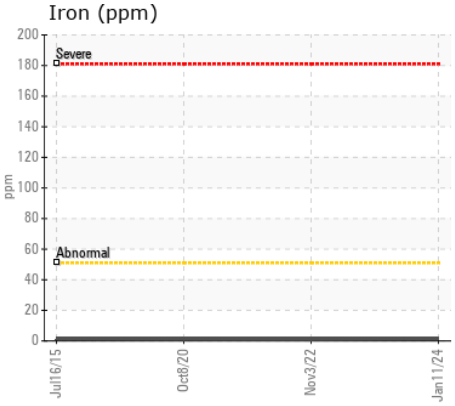
Fuel Dilution



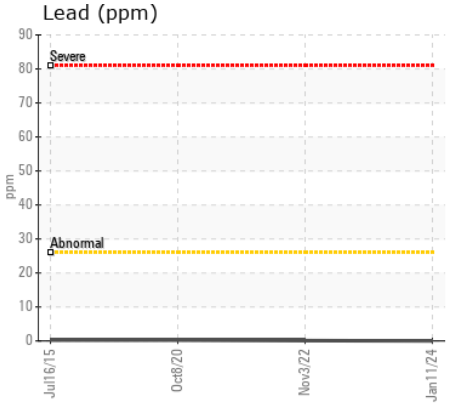
Viscosity @ 100°C



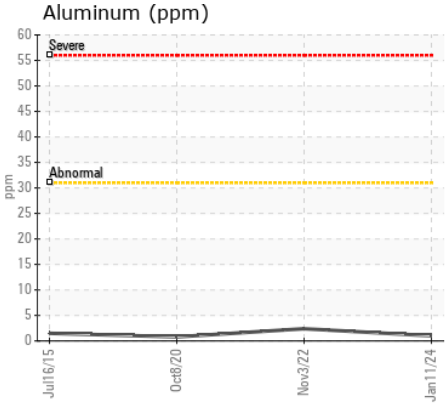
Iron (ppm)



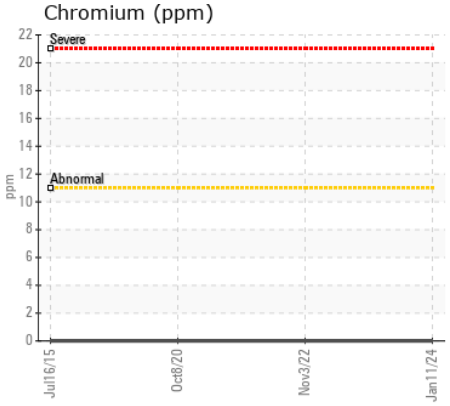
Lead (ppm)



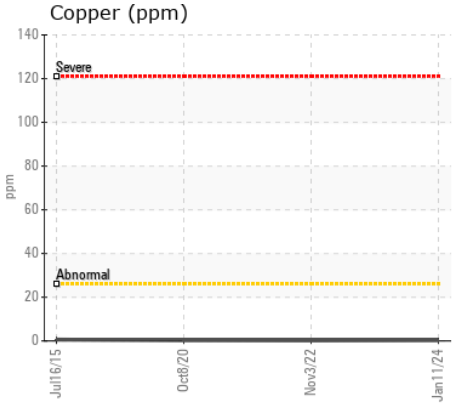
Aluminum (ppm)



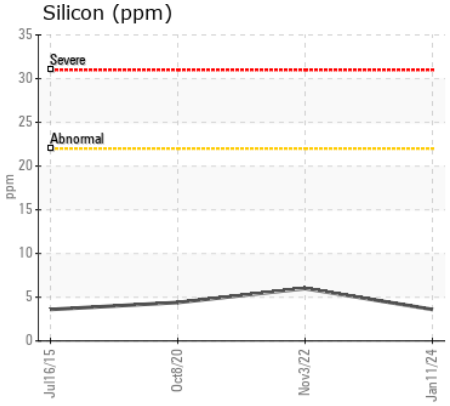
Chromium (ppm)



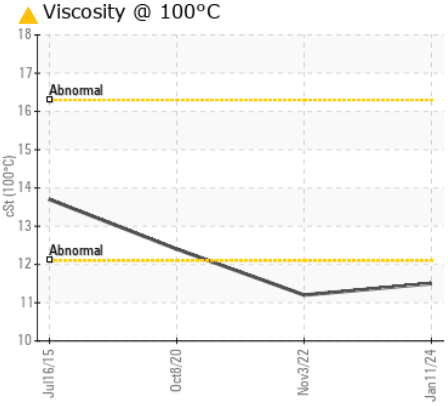
Copper (ppm)



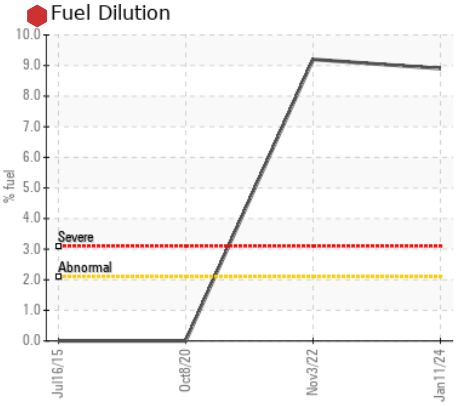
Silicon (ppm)



Viscosity @ 100°C



Fuel Dilution



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: WA0020808	**Recieved**	: 16 Jan 2024
Lab Number	: 02608918	**Diagnosed**	: 17 Jan 2024
Unique Number	: 5710004	**Diagnostician**	: Wes Davis
Test Package	: MOB 1 (Additional Tests: PercentFuel)		

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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