



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
CODEQUID HOUSING [6100230869]

Machine Id
JOHN DEERE PE4045L170665

Component
Diesel Engine

Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0021028	WA0018112	WA0016503
Sample Date		Client Info		03 Jan 2024	07 Jun 2022	10 May 2021
Machine Age	hrs	Client Info		651	441	391
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>51	9	3	3
Chromium	ppm	ASTM D5185(m)	>11	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>31	2	<1	<1
Lead	ppm	ASTM D5185(m)	>26	<1	0	0
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

CONTAMINATION

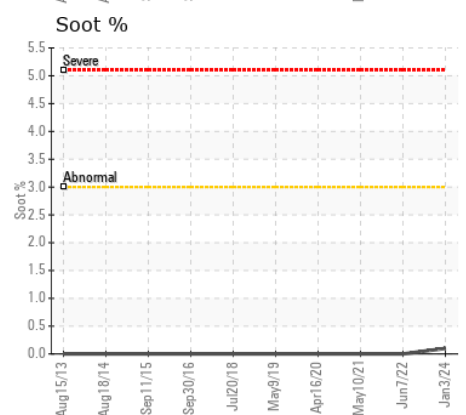
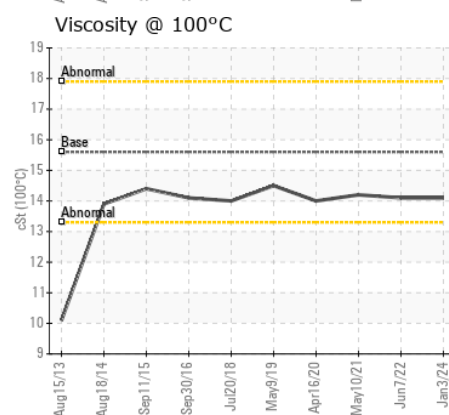
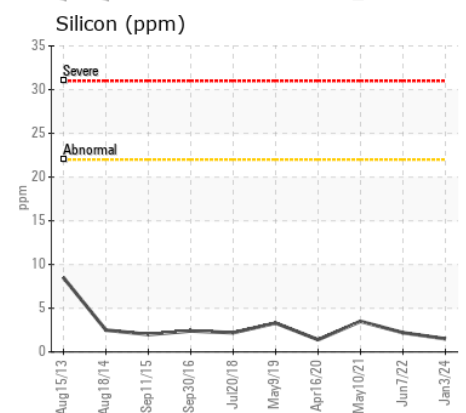
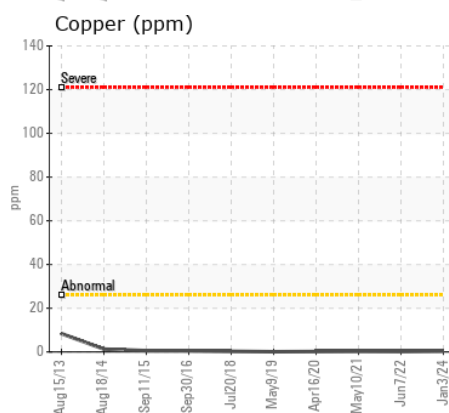
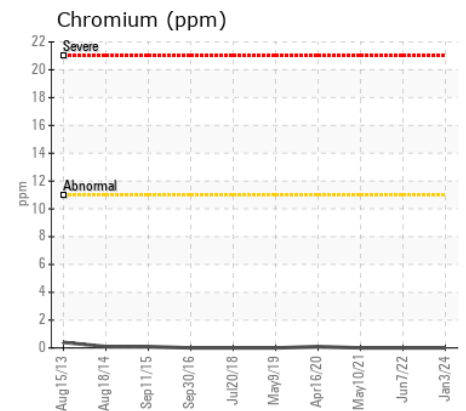
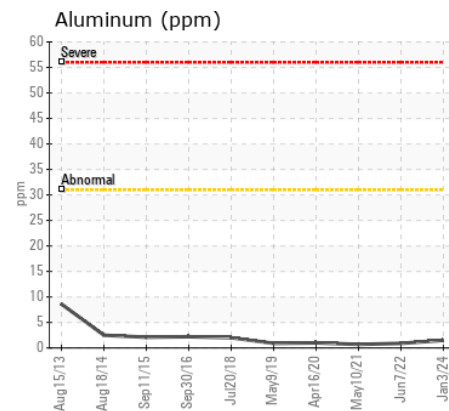
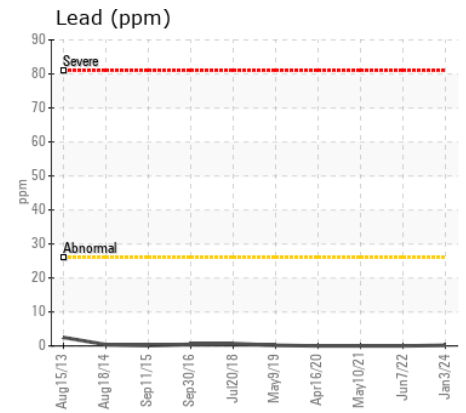
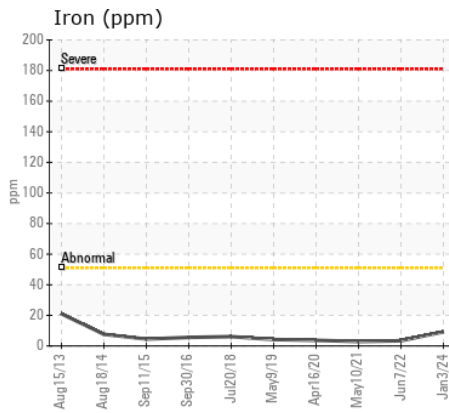
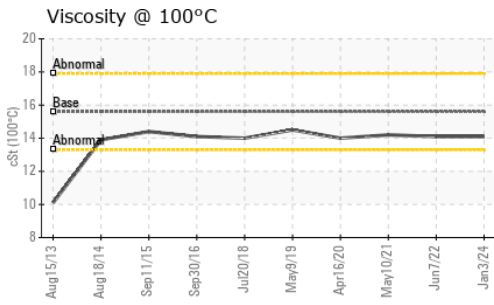
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	2	2	4
Potassium	ppm	ASTM D5185(m)	>20	1	8	7
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	0.0
Soot %	%	ASTM D7844*	>3	0.1	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.4	5.7	5.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.5	22.6	21.4
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>31	1	2	2
Boron	ppm	ASTM D5185(m)	0	29	181	183
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	46	<1	<1
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	740	12	12
Calcium	ppm	ASTM D5185(m)	1070	1292	2130	2170
Phosphorus	ppm	ASTM D5185(m)	1150	986	1014	970
Zinc	ppm	ASTM D5185(m)	1270	1140	1136	1158
Sulfur	ppm	ASTM D5185(m)	2060	2738	3049	3123
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.9	16.5	16.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	14.1	14.1	14.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA021028 **Received** : 16 Jan 2024
Lab Number : 02608947 **Diagnosed** : 16 Jan 2024
Unique Number : 5710033 **Diagnostician** : Wes Davis
Test Package : MOB 1

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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.