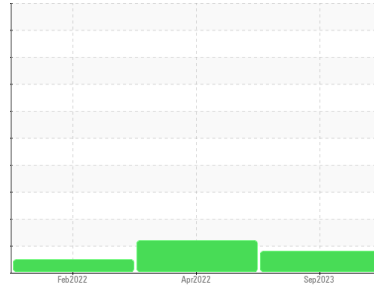


Machine Id  
**JOHN DEERE D462**

Component  
**Diesel Engine**

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



## DIAGNOSIS

### Recommendation

We advise that you check the fuel injection system. We recommend an early resample to monitor this condition. ( Customer Sample Comment: sampled need results asap please )

### Wear

All component wear rates are normal.

### Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0079089</b>	PCA0067837	PCA0063205
Sample Date	Client Info	<b>28 Sep 2023</b>	20 Apr 2022	10 Feb 2022
Machine Age	hrs	<b>1478</b>	617	280
Oil Age	hrs	<b>50</b>	337	280
Oil Changed	Client Info	<b>Not Chngd</b>	Changed	Changed
Sample Status		<b>ABNORMAL</b>	ABNORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >51	<b>3</b>	12	12
Chromium	ppm	ASTM D5185m >11	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m >5	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >31	<b>&lt;1</b>	2	4
Lead	ppm	ASTM D5185m >26	<b>0</b>	<1	2
Copper	ppm	ASTM D5185m >26	<b>&lt;1</b>	2	3
Tin	ppm	ASTM D5185m >4	<b>0</b>	<1	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>3</b>	39	249
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>52</b>	77	235
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>916</b>	873	863
Calcium	ppm	ASTM D5185m	<b>1007</b>	1180	1508
Phosphorus	ppm	ASTM D5185m	<b>999</b>	996	925
Zinc	ppm	ASTM D5185m	<b>1225</b>	1148	1072
Sulfur	ppm	ASTM D5185m	<b>3069</b>	2668	2888

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >22	<b>2</b>	3	6
Sodium	ppm	ASTM D5185m >31	<b>0</b>	1	2
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	2
Fuel	%	ASTM D3524 >2.1	<b>▲ 3.4</b>	▲ 5.5	<1.0

## INFRA-RED

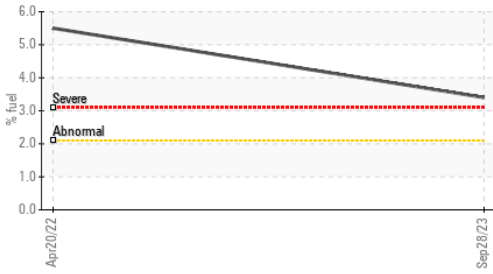
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844 >3	<b>0.1</b>	0.2	0.3
Nitration	Abs/cm	*ASTM D7624 >20	<b>5.5</b>	8.4	8.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>17.3</b>	19.2	21.4

## FLUID DEGRADATION

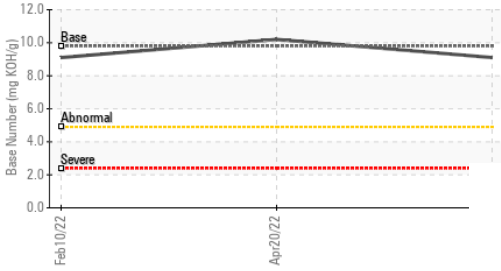
method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>13.6</b>	15.8	16.3
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>9.1</b>	10.2	9.1

# OIL ANALYSIS REPORT

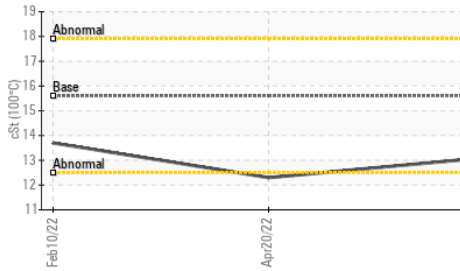
### ▲ Fuel Dilution



### Base Number



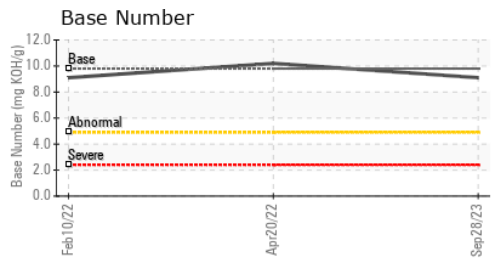
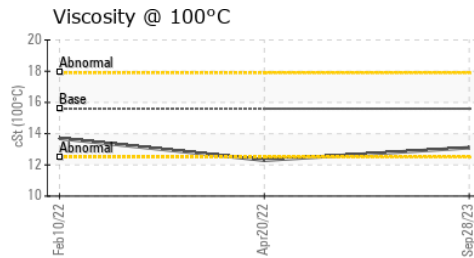
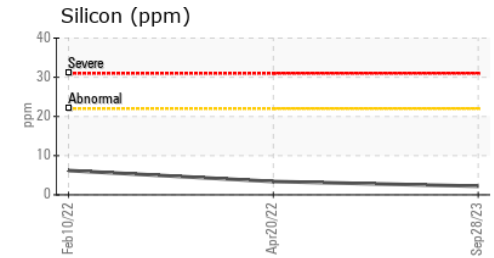
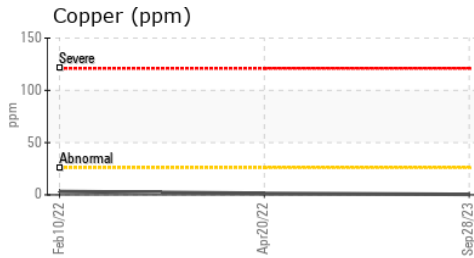
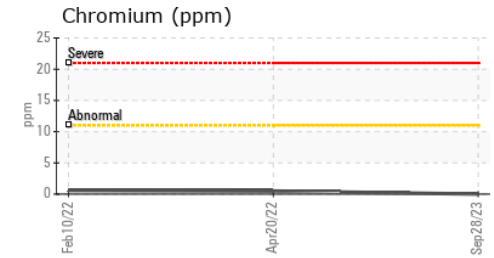
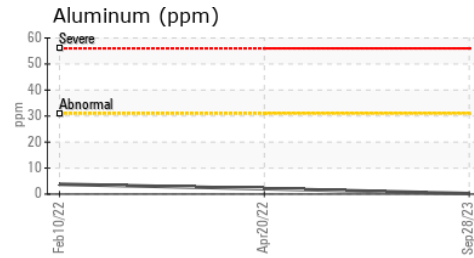
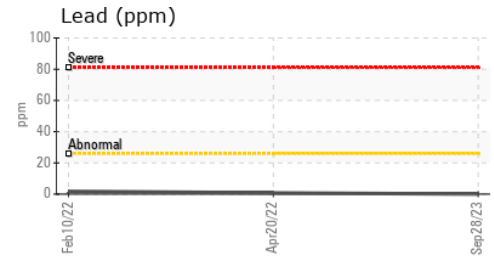
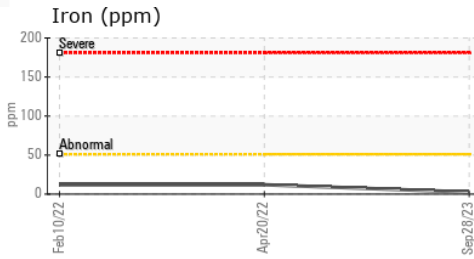
### Viscosity @ 100°C



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.21	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.6	13.1 ▲	12.3

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0079089 **Received** : 05 Oct 2023  
**Lab Number** : 05970766 **Diagnosed** : 12 Oct 2023  
**Unique Number** : 10682716 **Diagnostician** : Doug Bogart  
**Test Package** : MOB 1 ( Additional Tests: PERCENTFUEL, TBN )

**ASIP LOCAL 150**  
 19800 W. SOUTH ARSENAL ROAD  
 WILMINGTON, IL  
 US 60481  
 Contact: APRIL HURLEY  
 ahurley@asiplocal150.org  
 T: (815)722-3201  
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)