

Machine Id
JOHN DEERE 7730 1RW7730RAAR029341
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (--- QTS)

RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0096453	PCA0096450	PCA0081082
Sample Date		Client Info		06 Jun 2024	30 Oct 2023	23 Jun 2023
Machine Age	hrs	Client Info		9601	9364	9122
Oil Age	hrs	Client Info		232	246	261
Filter Age	hrs	Client Info		232	246	261
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

Moderate concentration of visible metal present. All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	7	6	17
Chromium	ppm	ASTM D5185m	>11	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	<1	<1	<1
Lead	ppm	ASTM D5185m	>26	0	0	<1
Copper	ppm	ASTM D5185m	>26	0	<1	1
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

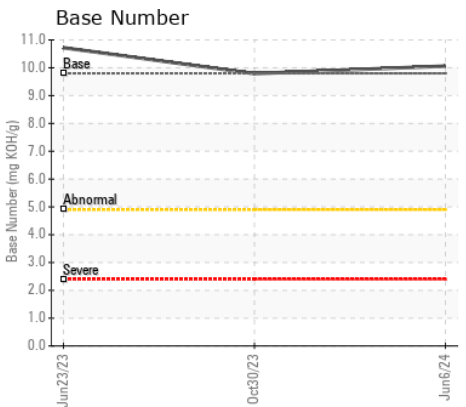
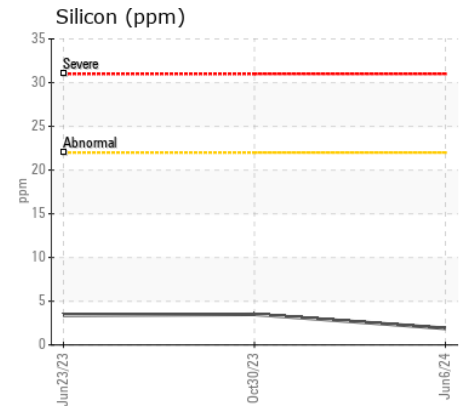
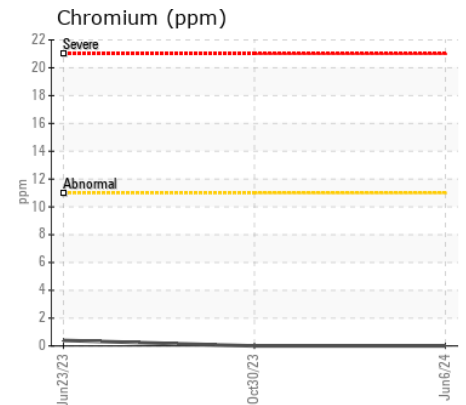
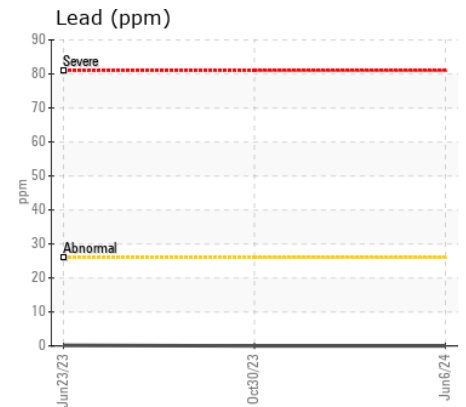
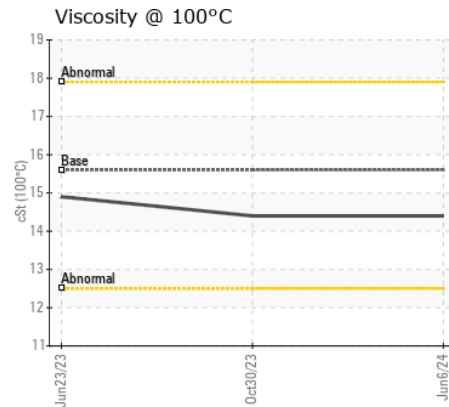
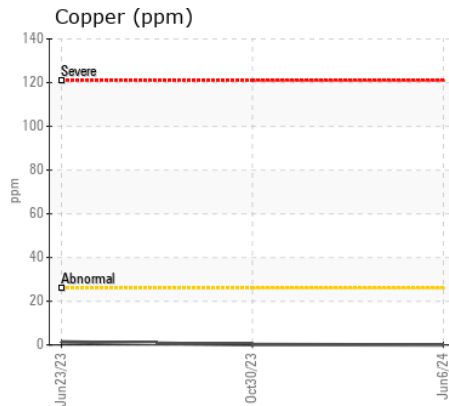
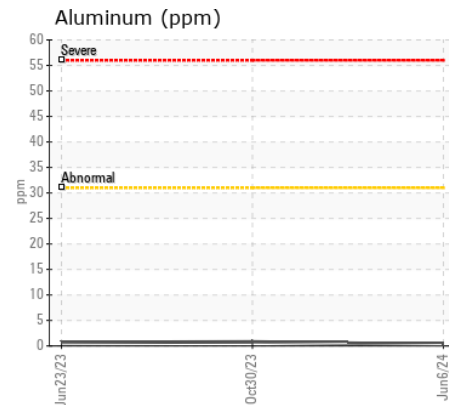
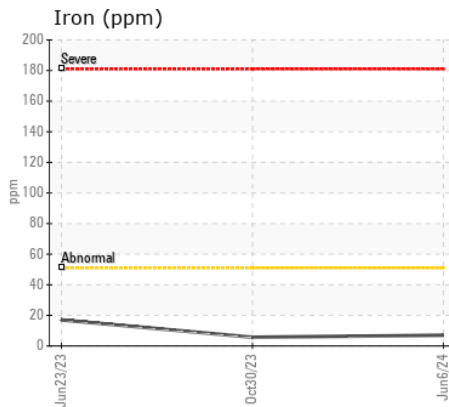
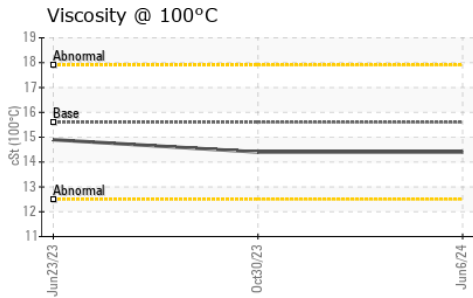
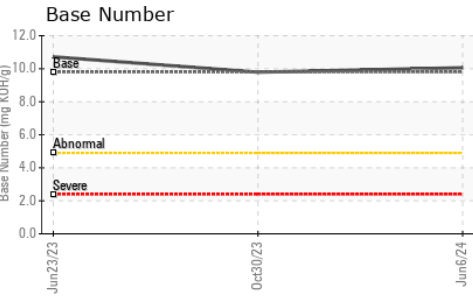
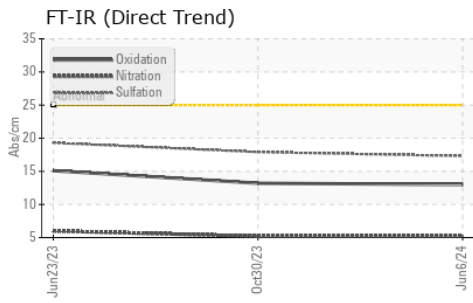
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	2	4	3
Potassium	ppm	ASTM D5185m	>20	0	<1	8
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.6
Nitration	Abs/cm	*ASTM D7624	>20	5.2	5.2	6.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	17.9	19.3
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>31	<1	<1	<1
Boron	ppm	ASTM D5185m		3	3	16
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		60	55	61
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		1066	861	920
Calcium	ppm	ASTM D5185m		1245	924	1087
Phosphorus	ppm	ASTM D5185m		1120	1005	1007
Zinc	ppm	ASTM D5185m		1380	1200	1186
Sulfur	ppm	ASTM D5185m		4079	2880	3120
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0	13.2	15.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	10.06	9.79	10.72
Visc @ 100°C	cSt	ASTM D445	15.6	14.4	14.4	14.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0096453 **Received** : 18 Jun 2024
Lab Number : 06213666 **Tested** : 20 Jun 2024
Unique Number : 11086530 **Diagnosed** : 20 Jun 2024 - Sean Felton
Test Package : MOB 2

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)

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