**WEAR** CONTAMINATION **FLUID CONDITION** 

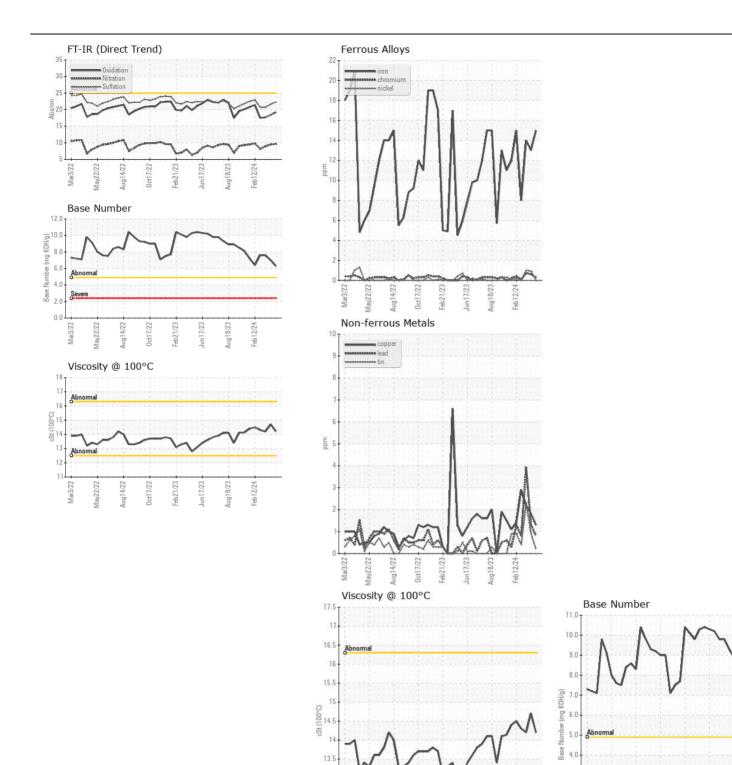
**NORMAL NORMAL NORMAL** 

Machine Id

## JOHN DEERE PACIFIC CHALLENGER

Front Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. ( Customer Sample Comment: Top Up Amount: 1 GAL )	Sample Number		Client Info		KL0011782	KL0011790	KL001178
	Sample Date		Client Info		10 May 2024	12 Apr 2024	08 Mar 202
	Machine Age	hrs	Client Info		98500	97000	98000
	Oil Age	hrs	Client Info		750	500	500
	Filter Age	hrs	Client Info		250	250	250
	Oil Changed		Client Info		Oil Added	Oil Added	Oil Added
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>51	15	13	14
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	<1	1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	<1	<1
	Aluminum	ppm	ASTM D5185m	>31	1	3	4
	Lead	ppm	ASTM D5185m	>26	<1	1	4
	Copper	ppm	ASTM D5185m	>26	1	2	2
	Tin	ppm	ASTM D5185m	>4	<1	<1	2
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	7	7	12
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	4	6
	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	0.7	0.6	0.5
	Nitration	Abs/cm	*ASTM D7624		9.6	9.5	8.9
	Sulfation	Abs/.1mm	*ASTM D7415		22.3	21.6	20.7
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
<u></u>	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m	>118	2	0	0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		41	52	75
	Barium	ppm	ASTM D5185m		0	0	<1
	Molybdenum	ppm	ASTM D5185m		14	13	13
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		522	544	564
	Calcium	ppm	ASTM D5185m		1779	1656	1767
	Phosphorus	ppm	ASTM D5185m		755	809	922
	Zinc	ppm	ASTM D5185m		844	931	972
	Sulfur	ppm	ASTM D5185m	05	3883	3406	3729
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	18.4	17.7
	Base Number (BN) Visc @ 100°C	mg KOH/g cSt	ASTM D2896 ASTM D445		6.3 14.2	7.0 14.7	7.6 14.2







Certificate L2367

Laboratory Sample No.

: KL0011782 Lab Number : 06196131 Unique Number : 11058254 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 May 2024 **Tested** : 31 May 2024 Diagnosed

: 02 Jun 2024 - Don Baldridge

Aug18/23 , Feb12/24

Jun17/23

**PACIFIC DAWN LLC** 2324 NW 90TH ST SEATTLE, WA US 98117 Contact: BURT PARKER

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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.

12.

11.5

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

Oct17/22

Feb12/24