WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

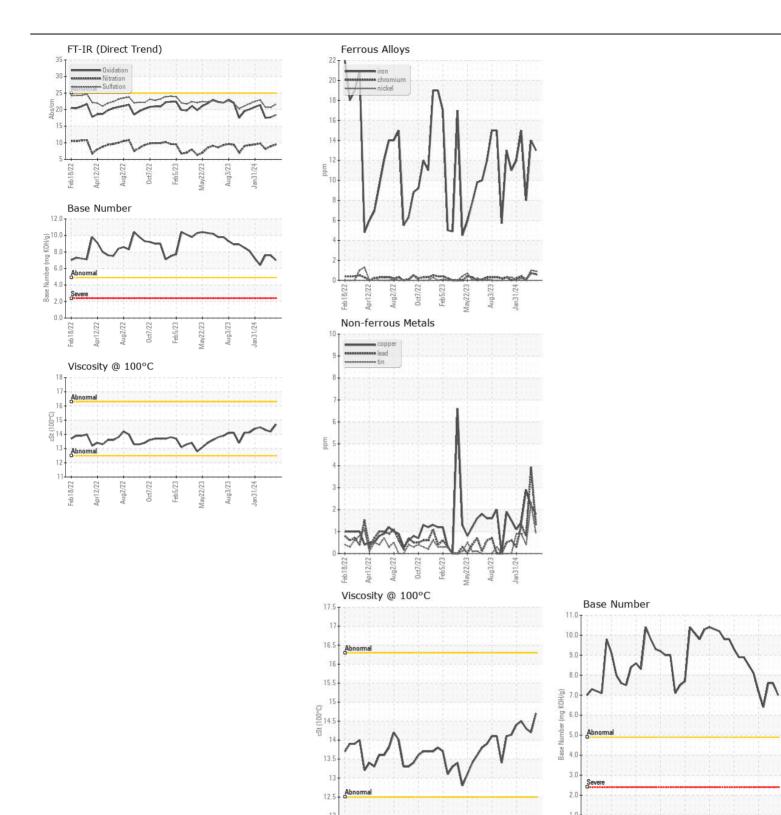
Machine Id

## JOHN DEERE PACIFIC CHALLENGER

Front Diesel Engine

MOBIL 15W40 (11 GAL)

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 Top Up Amount: 1 GAL)	Sample Number		Client Info		KL0011790	KL0011788	KL001180
	Sample Date		Client Info		12 Apr 2024	08 Mar 2024	23 Feb 202
	Machine Age	hrs	Client Info		97000	98000	97750
	Oil Age	hrs	Client Info		500	500	1500
	Filter Age	hrs	Client Info		250	250	500
	Oil Changed		Client Info		Oil Added	Oil Added	Oil Added
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	13	14	8
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m		<1	1	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	<1	<1	0
	Aluminum	ppm	ASTM D5185m	>31	3	4	1
	Lead	ppm	ASTM D5185m		1	4	<1
	Copper	ppm	ASTM D5185m		2	2	3
	Tin	ppm	ASTM D5185m		<1	2	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	7	12	6
SONTAIIINATION	Potassium	ppm	ASTM D5185m		4	6	2
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	<b>\3</b>	0.6	0.5	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	8.9	8.1
	Sulfation	Abs/.1mm	*ASTM D7415		21.6	20.7	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
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>118	0	0	1
ESIB SONDITION	Boron	ppm	ASTM D5185m	7	52	75	68
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m		13	13	12
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		544	564	515
	Calcium	ppm	ASTM D5185m		1656	1767	1595
	Phosphorus	ppm	ASTM D5185m		809	922	794
	Zinc	ppm	ASTM D5185m		931	972	902
	Sulfur	ppm	ASTM D5185m		3406	3729	3207
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	17.7	17.5
	Base Number (BN)			0	7.0	7.6	7.6
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Certificate L2367

Laboratory Sample No.

Lab Number : 06156671 Unique Number : 10992094

: KL0011790 Test Package : FLEET

11.5 Feb18/22

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

Diagnosed

: 22 Apr 2024 : 23 Apr 2024

: 24 Apr 2024 - Sean Felton

US 98117 Contact: BURT PARKER icfish@teleport.com

T: (206)297-2737 F: (206)297-2949

**PACIFIC DAWN LLC** 

2324 NW 90TH ST

SEATTLE, WA

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)