



WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE PACIFIC CHALLENGER
 Component
Front Diesel Engine
 Fluid
MOBIL 15W40 (11 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment:
 Top Up Amount: 1 GAL)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013588	KL0011782	KL0011790
Sample Date		Client Info		25 Jun 2024	10 May 2024	12 Apr 2024
Machine Age	hrs	Client Info		99000	98500	97000
Oil Age	hrs	Client Info		1250	750	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

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	24	15	13
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>31	1	1	3
Lead	ppm	ASTM D5185m	>26	<1	<1	1
Copper	ppm	ASTM D5185m	>26	2	1	2
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

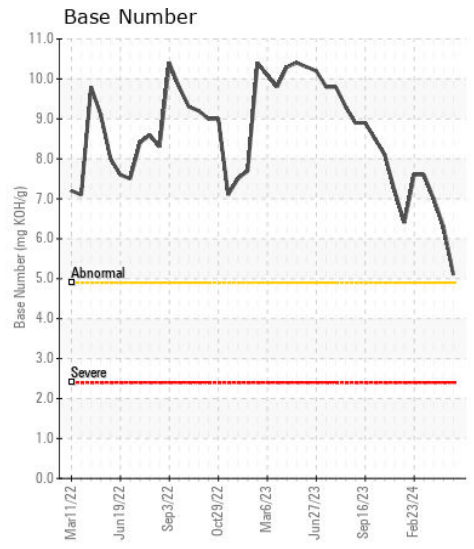
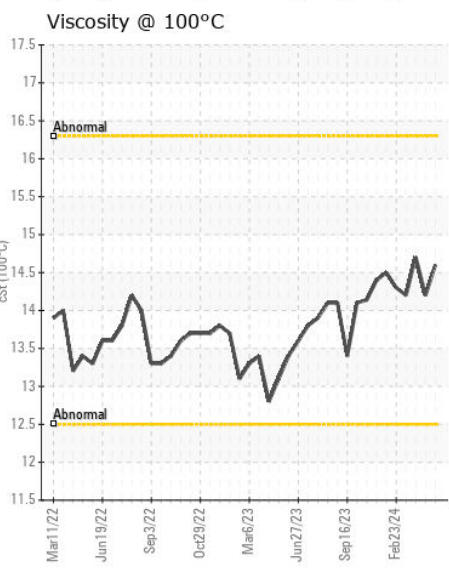
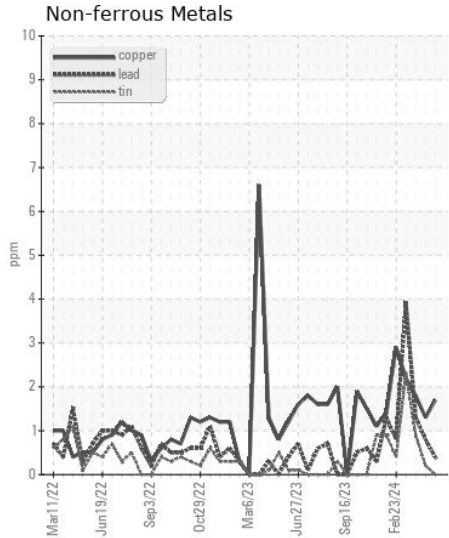
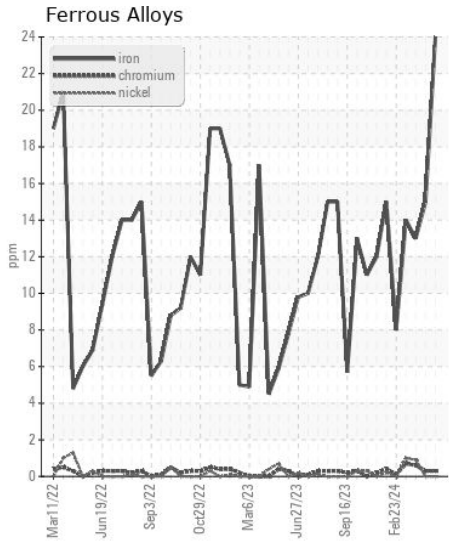
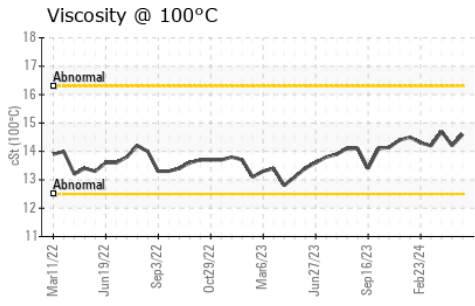
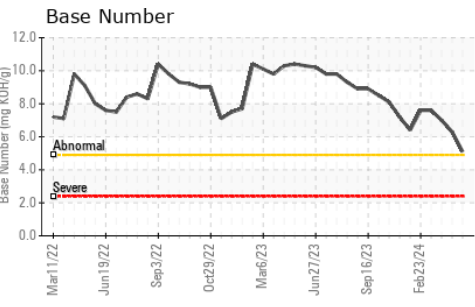
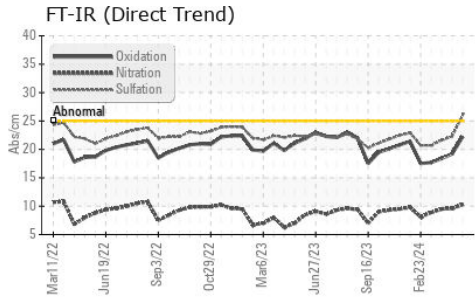
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	8	7	7
Potassium	ppm	ASTM D5185m	>20	1	2	4
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	1.2	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	10.3	9.6	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.0	22.3	21.6
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	>118	3	2	0
Boron	ppm	ASTM D5185m		30	41	52
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		13	14	13
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		555	522	544
Calcium	ppm	ASTM D5185m		1950	1779	1656
Phosphorus	ppm	ASTM D5185m		792	755	809
Zinc	ppm	ASTM D5185m		883	844	931
Sulfur	ppm	ASTM D5185m		4497	3883	3406
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.2	19.2	18.4
Base Number (BN)	mg KOH/g	ASTM D2896		5.1	6.3	7.0
Visc @ 100°C	cSt	ASTM D445		14.6	14.2	14.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013588
Lab Number : 06229445
Unique Number : 11112938
Test Package : FLEET
Received : 05 Jul 2024
Tested : 09 Jul 2024
Diagnosed : 09 Jul 2024 - Sean Felton

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