

OIL ANALYSIS REPORT

Machine Id JOHN DEERE 5325 TR-123 Component Diesel Engine Fluid TBC MOLY XL PBO-SPEC IV XP

TRC MOLY XL PRO-SPEC IV XP 15W40 (10 QTS)

RECOMMENDATION	
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All component wear rates are normal.

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

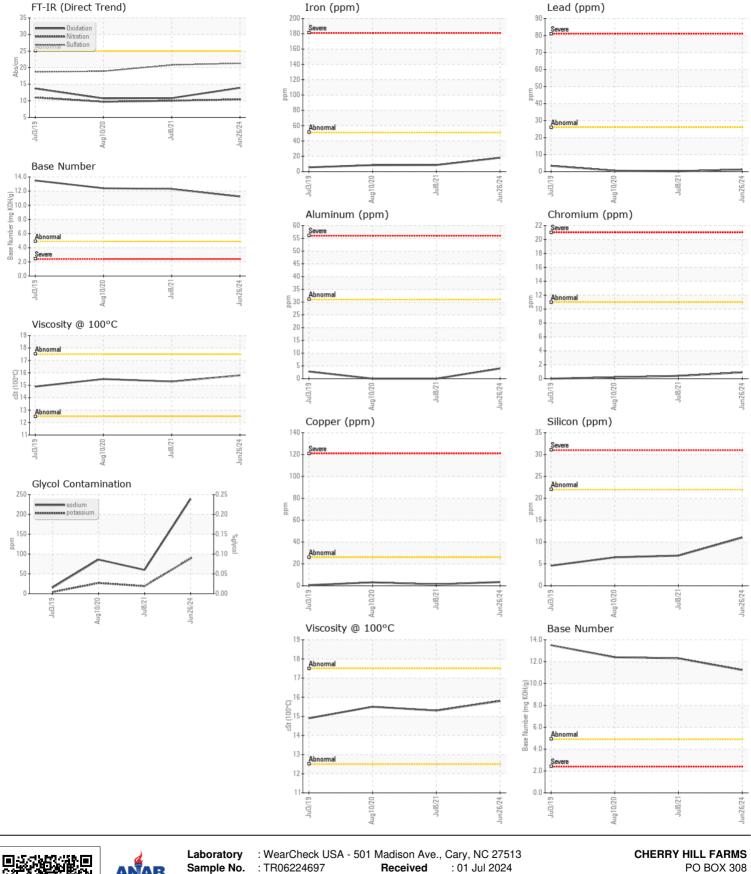
CONTAMINATION

Sodium and/or potassium levels are high.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06224697	TR05303267	TR05045070
Sample Date		Client Info		26 Jun 2024	08 Jul 2021	10 Aug 2020
Machine Age	hrs	Client Info		6485	4624	4200
Oil Age	hrs	Client Info		500	500	500
Filter Age	hrs	Client Info		500	500	500
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>51	18	9	8
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>31	4	0	0
Lead	ppm	ASTM D5185m	>26	1	<1	<1
Copper	ppm	ASTM D5185m	>26	3	1	3
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	11	7	6
Potassium	ppm	ASTM D5185m	>20	<mark>/</mark> 89	19	27
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.4	10	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	20.8	18.9
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	scalar	*Visual	>0.21	NEG	NEG	NEG
Sodium	nom	ASTM D5185m	>31	A 239	60	86
Boron	ppm ppm	ASTM D5185m		11	11	9
Barium		ASTM D5185m		0	0	<1
Molybdenum	ppm ppm	ASTM D5185m		132	98	128
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		499	39	71
Calcium		ASTM D5185m		499 2519	3858	4162
Phosphorus	ppm ppm	ASTM D5185m		1012	824	886
Zinc		ASTM D5185m		1012	961	1044
Sulfur	ppm				3211	
	ppm	ASTM D5185m	- OF	4243		3659
Oxidation	Abs/.1mm	*ASTM D7414 ASTM D2896	>25	13.9	10.8	10.7 12.4
Base Number (BN)	mg KOH/g			11.23	12.3	
Visc @ 100°C	cSt	ASTM D445		15.8	15.3	15.5



Sample No. : TR06224697 : 01 Jul 2024 Lab Number : 06224697 Tested SANTAQUIN, UT : 03 Jul 2024 Unique Number : 11102894 : 03 Jul 2024 - Jonathan Hester US 84655 Diagnosed Test Package : MOB 2 (Additional Tests: Glycol) Contact: JOHN AAGARD Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-827-0711. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: JOHN AAGARD - CHESAN Page 2 of 2