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

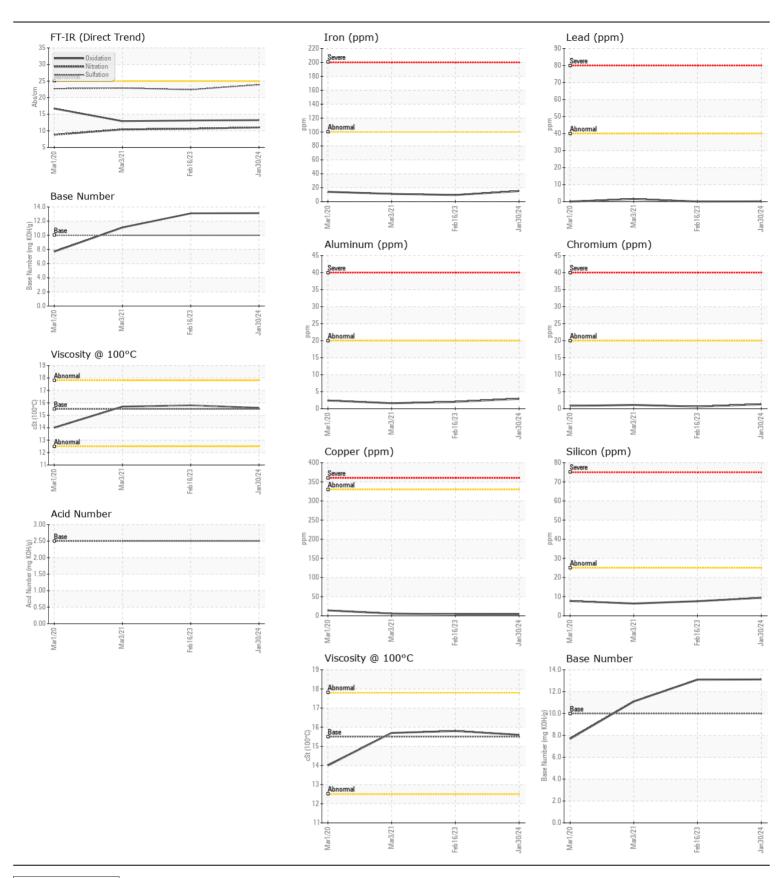
OIL ANALYSIS REPORT

Machine Id

CASE IH 550 QT 138818

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		TR06228140	TR06045689	TR0538899
	Sample Date		Client Info		30 Jan 2024	16 Feb 2023	03 Mar 202
	Machine Age	hrs	Client Info		2800	2559	2057
	Oil Age	hrs	Client Info		250	280	267
	Filter Age	hrs	Client Info		250	280	267
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	15	10	11
	Chromium	ppm	ASTM D5185m	>20	1	<1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	3	2	2
	Lead	ppm	ASTM D5185m	>40	<1	0	2
	Copper	ppm	ASTM D5185m	>330	4	4	6
	Tin	ppm	ASTM D5185m	>15	1	1	1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	9	8	6
	Potassium	ppm	ASTM D5185m	>20	3	0	2
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	11.0	10.6	10.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9	22.4	22.9
	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	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	3	4
	Boron	ppm	ASTM D5185m		<1	2	27
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	<1
	Molybdenum	ppm	ASTM D5185m		4	21	13
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		22	23	70
	Calcium	ppm	ASTM D5185m	2300	5531	4474	3916
	Phosphorus	ppm	ASTM D5185m		1005	946	795
	Zinc	ppm	ASTM D5185m	1200	1235	1093	1058
	Sulfur	ppm	ASTM D5185m		4542	3839	2948
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	13.1	12.9
	Base Number (BN)		ASTM D2896		13.12	13.09	11.1
	Dasc Nullibel (DIV)						





Certificate L2367

Laboratory Sample No.

Lab Number : 06228140

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR06228140

Received **Tested** Unique Number : 11111633 Diagnosed

: 08 Jul 2024 - Angela Borella Test Package : MOB 2 (Additional Tests: TAN Man)

: 03 Jul 2024

: 08 Jul 2024

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

15231 COUNTY FARM RD CARLYLE, IL

US 62231

Contact: CHARLES FLATT

T: F: