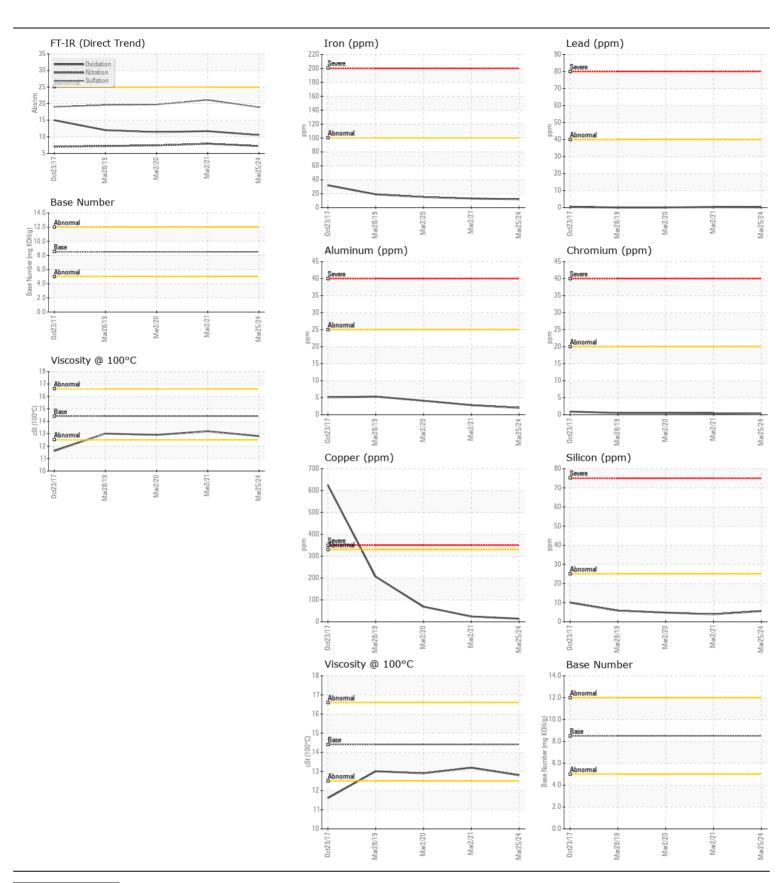
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**



Machine Id **CATERPILLAR AP555F AP-12**

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
HEOOMMENDATION	Sample Number	00	Client Info		DC0034921		DC0005167
Resample at the next service interval to monitor.	Sample Date		Client Info		25 Mar 2024	02 Mar 2021	02 Mar 2020
	Machine Age	hrs	Client Info		2178	1900	1593
	Oil Age	hrs	Client Info		300	357	400
	Filter Age	hrs	Client Info		300	357	400
	Oil Changed	0	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAD	lus a		AOTM DEADE	400	40	40	4.5
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		12	13	15
	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		<1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	3	4
	Lead	ppm	ASTM D5185m	>40	<1	<1	0
	Copper	ppm	ASTM D5185m		14	24	69
	Tin	ppm	ASTM D5185m	>15	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	4	5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	2	0
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.2	7.9	7.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	21.1	19.7
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	3	4	11
The DNI could be discussed that the contract the black is all a first between the the	Boron	ppm	ASTM D5185m	250	3	5	4
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	10	<1	0	0
	Molybdenum	ppm	ASTM D5185m	100	4	4	7
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m	450	59	73	119
	Calcium	ppm	ASTM D5185m	3000	2466	2358	2640
	Phosphorus	ppm	ASTM D5185m	1150	1024	908	951
	Zinc	ppm		1350	1162	1121	1147
	Sulfur	ppm	ASTM D5185m	4250	4246	3272	3209
	Oxidation	Abs/.1mm	*ASTM D7414	>25	10.5	11.7	11.4
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.5		
	Visc @ 100°C	cSt	ASTM D445	14.4	12.8	13.2	12.9







Certificate L2367

Laboratory Sample No.

Lab Number : 06148492 Unique Number: 10978570

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DC0034921

Received **Tested**

Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 16 Apr 2024 : 16 Apr 2024 - Wes Davis

: 15 Apr 2024

Contact: JONATHAN KUENTZ jonathank@rosscontracting.com

ROSS CONTRACTING INC.

1007 RISING RIDGE ROAD

T: (301)831-5500 F: (301)831-5900

MOUNT AIRY, MD

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)

US 21771