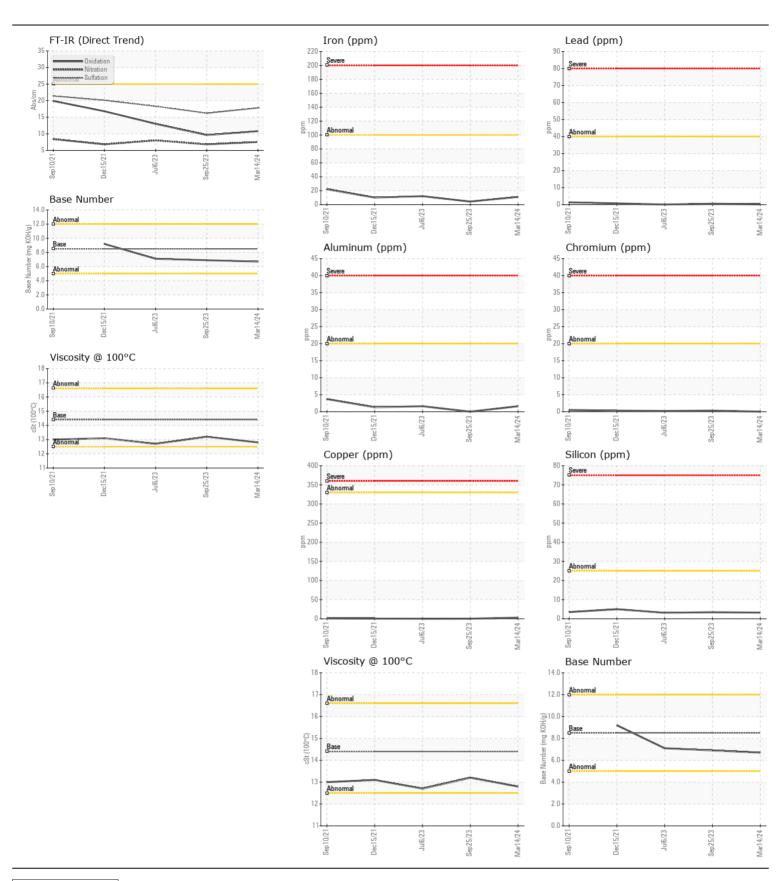
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id **60430**

Diesel Engine

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Test UOM Method Limit/Abn Current History1 Sample Number Client Info DC0032954 Sample Date Client Info 14 Mar 2024 Machine Age hrs Client Info 17700 Oil Age hrs Client Info 300 250 Filter Age hrs Client Info Oil Changed Changed Oil Changed Changed	
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Sample Date Client Info 14 Mar 2024 25 Sep 202 Machine Age hrs Client Info Oil Age hrs Client Info Filter Age hrs Client Info Oil Changed Changed Changed	DC0029346 3 06 Jul 2023
component make and model with your next sample. Machine Age hrs Client Info 18100 17700	
Machine Age Infs Client Info 18100 17700 Oil Age Infs Client Info 300 250 Filter Age Infs Client Info 300 0 Oil Changed Client Info Changed Changed	17469
Filter AgehrsClient Info3000Oil ChangedClient InfoChangedChanged	
Oil Changed Client Info Changed Changed	250
	0
	Changed
Filter Changed Client Info Changed Changed	Changed
Sample Status NORMAL NORMAL	NORMAL
WEAR Iron ppm ASTM D5185m >100 11 4	12
Chromium ppm ASTM D5185m >20 0 <1	<1
All component wear rates are normal. Nickel ppm ASTM D5185m >4 0 1	0
Titanium ppm ASTM D5185m 0 0	0
Silver ppm ASTM D5185m >3 0 0	0
Aluminum ppm ASTM D5185m >20 2 0	2
Lead ppm ASTM D5185m >40 <1	0
Copper ppm ASTM D5185m >330 3 <1	0
Tin ppm ASTM D5185m >15 0 0	0
VanadiumppmASTM D5185m00	0
White Metal scalar *Visual NONE NONE NONE	NONE
Yellow Metal scalar *Visual NONE NONE NONE	NONE
CONTAMINATION Silicon ppm ASTM D5185m >25 3 3	3
Potassium ppm ASTM D5185m >20 1 3	0
There is no indication of any contamination in the oil. 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 %	0.2
Nitration Abs/cm *ASTM D7624 >20 7.5 6.8	8.0
Sulfation Abs/.1mm *ASTM D7415 >30 17.8 16.2	18.3
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 NORM	
Emulsified Water scalar *Visual >0.2 NEG NEG	NEG
FLUID CONDITION Sodium ppm ASTM D5185m >158 3 0	2
The DN we salk indicates that the sale salidable all salidable sal	19
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 0	0
Molybdenum ppm ASTM D5185m 100 4	13
Manganese ppm ASTM D5185m <1 <1	0
Magnesium ppm ASTM D5185m 450 53 59	158
Calcium ppm ASTM D5185m 3000 2380 2227	2451
	952
Phosphorus ppm ASTM D5185m 1150 957 901	1136
Zinc ppm ASTM D5185m 1350 1112 1083	
Zinc ppm ASTM D5185m 1350 1112 1083 Sulfur ppm ASTM D5185m 4250 4472 3858	4461
Zinc ppm ASTM D5185m 1350 1112 1083 Sulfur ppm ASTM D5185m 4250 4472 3858 Oxidation Abs/.1mm *ASTM D7414 >25 10.8 9.6	13.0
Zinc ppm ASTM D5185m 1350 1112 1083 Sulfur ppm ASTM D5185m 4250 4472 3858	







Certificate L2367

Laboratory

Sample No.

Lab Number : 06147060 Unique Number: 10977138

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DC0032954

Received **Tested** Diagnosed

: 12 Apr 2024 : 15 Apr 2024 Test Package : MOB 1 (Additional Tests: TBN)

: 15 Apr 2024 - Wes Davis

FRANCIS O DAY 14900 SOUTHLAWN LN ROCKVILLE, MD US 20850

Contact: JAMIE FORESTER

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)

T: F: