

# 048304-1476 - DIESEL ENGINE

**Sample No:** LH0182719

**Oil Type:** TOTAL FINA RUBIA TIR 7900 FE 10W30

## SAMPLE INFORMATION

Sample Number	<b>LH0182719</b>	LH0148786	---	---
Sample Date	<b>09 Oct 2021</b>	17 Feb 2021	---	---
Machine Hours	<b>1606</b>	593	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

**American Iron and Metal**  
 75 Steel City Court  
 Hamilton, ON  
 CA L8H 3Y2  
 Contact: Heavy Equipment  
 hamiltonmobileassetmaintenance@aim-recycling.com  
 T: (905)547-5533  
 F: (905)544-5671

## OIL CONDITION

Visc @ 40°C	cSt	<b>78.8</b>	---	---
Visc @ 100°C	cSt	<b>11.4</b>	12.0	---
Viscosity Index (VI)	Scale	<b>135</b>	---	---
Oxidation (PA)	%	<b>75</b>	188	---

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	---
Soot %	%	<b>0</b>	0	---
Nitration (PA)	%	<b>86</b>	96	---
Sulfation (PA)	%	<b>63</b>	104	---
Glycol	%	<b>NEG</b>	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	---
Silicon	ppm	<b>8</b>	9	---
Sodium	ppm	<b>3</b>	3	---
Potassium	ppm	<b>10</b>	3	---

## WEAR METALS

Iron	ppm	<b>6</b>	16	---
Copper	ppm	<b>5</b>	109	---
Lead	ppm	<b>&lt;1</b>	5	---
Tin	ppm	<b>&lt;1</b>	2	---
Aluminum	ppm	<b>5</b>	2	---
Chromium	ppm	<b>&lt;1</b>	1	---
Molybdenum	ppm	<b>89</b>	53	---
Nickel	ppm	<b>&lt;1</b>	<1	---
Titanium	ppm	<b>0</b>	<1	---
Silver	ppm	<b>&lt;1</b>	<1	---
Manganese	ppm	<b>&lt;1</b>	<1	---
Vanadium	ppm	<b>0</b>	0	---

## ADDITIVES

Calcium	ppm	<b>2203</b>	1474	---
Magnesium	ppm	<b>34</b>	765	---
Zinc	ppm	<b>1189</b>	915	---
Phosphorus	ppm	<b>1050</b>	690	---
Barium	ppm	<b>&lt;1</b>	30	---
Boron	ppm	<b>24</b>	69	---

## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** AMEHAM  
**Unique No:** 5293333  
**Signed:** Wes Davis  
**Report Date:** 19 Oct 2021

Submitted By: ?

# GRAPHS

