



# CONSTRUCTION EQUIPMENT

## 20-14 - DIESEL ENGINE



**Sample No:** VCP381774  
**Oil Type:** TOTAL FINA RUBIA TIR 7900 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP381774</b>	VCP335034	VCP335236	---
Sample Date	<b>24 Aug 2023</b>	07 Jul 2022	07 Feb 2022	---
Machine Hours	<b>0</b>	492102	464800	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>ATTENTION</b>	NORMAL	NORMAL	---

**TESSIER LTEE.**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.4</b>	14.0	14.6	---
Oxidation (PA)	%	<b>99</b>	65	37	---



### CONTAMINATION

Soot %	%	<b>0</b>	0	0	---
Nitration (PA)	%	<b>91</b>	82	40	---
Sulfation (PA)	%	<b>83</b>	58	43	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>14</b>	13	8	---
Sodium	ppm	<b>9</b>	9	5	---
Potassium	ppm	<b>48</b>	3	1	---

### Diagnosis

Nous avons pris note que l'huile a été vidangée et le filtre remplacé au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. Le taux de plomb est marginal. Les taux d'usure de tous les autres composants sont normaux. 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. Il n'y a aucun indice de contamination dans l'huile. L'état de l'huile est acceptable pour la durée de service.



### WEAR METALS

Iron	ppm	<b>38</b>	7	29	---
Copper	ppm	<b>4</b>	1	2	---
Lead	ppm	<b>▲ 32</b>	1	6	---
Tin	ppm	<b>2</b>	<1	<1	---
Aluminum	ppm	<b>20</b>	4	3	---
Chromium	ppm	<b>5</b>	1	<1	---
Molybdenum	ppm	<b>93</b>	78	93	---
Nickel	ppm	<b>&lt;1</b>	0	<1	---
Titanium	ppm	<b>0</b>	<1	0	---
Silver	ppm	<b>&lt;1</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>2306</b>	2265	2250	---
Magnesium	ppm	<b>148</b>	21	492	---
Zinc	ppm	<b>1338</b>	1223	1508	---
Phosphorus	ppm	<b>1107</b>	1036	1295	---
Barium	ppm	<b>&lt;1</b>	0	0	---
Boron	ppm	<b>19</b>	48	48	---

**Depot:** TESBAI  
**Unique No:** 5667919  
**Signed:** Kevin Marson  
**Report Date:** 23 Oct 2023



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## GRAPHS

