



# CONSTRUCTION EQUIPMENT

9877 RITCHIE LAND ALJON 30116 - DIESEL ENGINE



**Sample No:** VCP422880  
**Oil Type:** CHEVRON 15W40  
**Job No:** 9877 RITCHIE LAND



## SAMPLE INFORMATION

Sample Number	<b>VCP422880</b>	VCP407896	VCP395158	VCP369057
Sample Date	<b>22 Nov 2023</b>	24 Jun 2023	28 Feb 2023	14 Dec 2022
Machine Hours	<b>5376</b>	5062	4662	4234
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.3</b>	13.2	13.0	13.0
Base Number (BN)	mg KOH/g	<b>7.2</b>	7.5	7.7	8.7
Oxidation (PA)	%	<b>63</b>	63	62	68

## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>60</b>	66	63	66
Sulfation (PA)	%	<b>60</b>	61	60	65
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	6	4	6
Sodium	ppm	<b>2</b>	0	2	5
Potassium	ppm	<b>3</b>	4	<1	2

## WEAR METALS

Iron	ppm	<b>3</b>	5	4	4
Copper	ppm	<b>&lt;1</b>	1	<1	5
Lead	ppm	<b>&lt;1</b>	1	0	<1
Tin	ppm	<b>&lt;1</b>	<1	0	1
Aluminum	ppm	<b>3</b>	2	2	3
Chromium	ppm	<b>0</b>	0	0	<1
Molybdenum	ppm	<b>72</b>	74	78	93
Nickel	ppm	<b>1</b>	<1	0	<1
Titanium	ppm	<b>2</b>	<1	2	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>1486</b>	1614	1658	1601
Magnesium	ppm	<b>384</b>	394	418	505
Zinc	ppm	<b>1248</b>	1188	1169	1127
Phosphorus	ppm	<b>1100</b>	998	960	944
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>290</b>	252	296	288

**Depot:** PLECLA  
**Unique No:** 10756821  
**Signed:** Wes Davis  
**Report Date:** 28 Nov 2023



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## GRAPHS

