



# CONSTRUCTION EQUIPMENT

9328 TOLSON ALJON 30131 - DIESEL ENGINE



**Sample No:** VCP412597  
**Oil Type:** CHEVRON 15W40  
**Job No:** 9328 TOLSON



## SAMPLE INFORMATION

Sample Number	<b>VCP412597</b>	VCP408895	VCP05824398	VCP405214
Sample Date	<b>24 Jul 2023</b>	01 Jun 2023	17 Apr 2023	20 Feb 2023
Machine Hours	<b>1665</b>	1445	1162	861
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>12.7</b>	12.6	12.5	12.5
Base Number (BN)	mg KOH/g	<b>7.7</b>	7.3	7.9	8.4
Oxidation (PA)	%	<b>60</b>	68	61	61

## CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>47</b>	53	52	53
Sulfation (PA)	%	<b>57</b>	61	59	59
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>10</b>	7	7	8
Sodium	ppm	<b>2</b>	1	<1	0
Potassium	ppm	<b>4</b>	2	2	2

## WEAR METALS

Iron	ppm	<b>4</b>	6	7	7
Copper	ppm	<b>&lt;1</b>	0	<1	1
Lead	ppm	<b>&lt;1</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>&lt;1</b>	3	<1	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	0
Molybdenum	ppm	<b>88</b>	94	92	94
Nickel	ppm	<b>&lt;1</b>	1	<1	0
Titanium	ppm	<b>3</b>	<1	1	2
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	0

## ADDITIVES

Calcium	ppm	<b>1544</b>	1458	1401	1428
Magnesium	ppm	<b>445</b>	443	454	447
Zinc	ppm	<b>1400</b>	1326	1169	1117
Phosphorus	ppm	<b>1134</b>	1076	967	953
Barium	ppm	<b>0</b>	0	0	2
Boron	ppm	<b>466</b>	421	397	435

## 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.

**Depot:** PLECLA  
**Unique No:** 10586156  
**Signed:** Doug Bogart  
**Report Date:** 08 Aug 2023



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## GRAPHS

