



# CONSTRUCTION EQUIPMENT

## HYUNDAI 22356459 - DIESEL ENGINE



**Sample No:** VCP425528  
**Oil Type:** PETRO CANADA 10W30  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP425528	VCP425539	---	---
Sample Date	11 Jul 2024	21 Jan 2024	---	---
Machine Hours	2593	1655	---	---
Oil Hours	300	300	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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### OIL CONDITION

Visc @ 100°C	cSt	█ 11.0	█ 11.1	---	---
Base Number (BN)	mg KOH/g	█ 8.2	█ 8.5	---	---
Oxidation (PA)	%	65	58	---	---

### 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	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.1	---	---
Nitration (PA)	%	58	55	---	---
Sulfation (PA)	%	53	50	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 6	█ 8	---	---
Sodium	ppm	█ 1	█ 1	---	---
Potassium	ppm	█ 0	█ <1	---	---



### WEAR METALS

Iron	ppm	█ 10	█ 12	---	---
Copper	ppm	█ <1	█ 3	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ 1	█ 2	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 59	█ 54	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	0	---	---



### ADDITIVES

Calcium	ppm	█ 1098	█ 1038	---	---
Magnesium	ppm	█ 1013	█ 918	---	---
Zinc	ppm	█ 1283	█ 1162	---	---
Phosphorus	ppm	█ 1086	█ 1009	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 1	█ 4	---	---

**Depot:** WOOSTM  
**Unique No:** 11124256  
**Signed:** Wes Davis  
**Report Date:** 15 Jul 2024



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## GRAPHS

