

OIL ANALYSIS REPORT



ANVIL EXCAVATION LTD R100-24142 2006006515 - STARBOARD MAIN ENGINE

Sample No: VPA060324
Oil Type: PETRO CANADA 15W40

SAMPLE INFORMATION

Sample Number	VPA060324	---	---	---
Sample Date	15 Feb 2024	---	---	---
Machine Hours	1541	---	---	---
Oil Hours	50	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

CULLEN DIESEL POWER - 695335
 9300 192 ST
 SURREY, BC
 CA V4N 3R8
 Contact: Michelle Sayers
 mns@cullendiesel.com
 T: (604)888-1211
 F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.7	---	---	---
Oxidation (PA)	%	█ 64	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	█ 66	---	---	---
Sulfation (PA)	%	█ 58	---	---	---
Glycol	%	▲ 0.023	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	▲ 25	---	---	---

Diagnosis

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Aluminum ppm levels are severe. Piston wear is indicated. Test for glycol is positive. There is a light concentration of glycol present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

WEAR METALS

Iron	ppm	█ 38	---	---	---
Copper	ppm	█ 7	---	---	---
Lead	ppm	█ 8	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	▲ 68	---	---	---
Chromium	ppm	█ 5	---	---	---
Molybdenum	ppm	█ 56	---	---	---
Nickel	ppm	█ < 1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	█ 0	---	---	---

ADDITIVES

Calcium	ppm	█ 1055	---	---	---
Magnesium	ppm	█ 953	---	---	---
Zinc	ppm	█ 1151	---	---	---
Phosphorus	ppm	█ 1029	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 2	---	---	---

Depot: CULSUR
Unique No: 5736304
Signed: Kevin Marson
Report Date: 01 Mar 2024

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GRAPHS

