



CONSTRUCTION EQUIPMENT

C AND C ROAD MAINTENANCE 010322 - DIESEL ENGINE



Sample No: VCP428275
Oil Type: DIESEL ENGINE OIL SAE 40
Job No:



SAMPLE INFORMATION

Sample Number	VCP428275	---	---	---
Sample Date	23 Jun 2023	---	---	---
Machine Hours	7693	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

GREAT WEST EQUIPMENT
 1600 KOSMINA ROAD, 123 L&A CROSS RD
 VERNON, BC
 CA V1T 8T2
 Contact: Garry Beach
 gbeach@gwequipment.com
 T: (250)549-4232
 F: (250)549-3397



OIL CONDITION

Visc @ 100°C	cSt	█ 14.5	---	---	---
Oxidation (PA)	%	█ 78	---	---	---



CONTAMINATION

Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	█ 88	---	---	---
Sulfation (PA)	%	█ 61	---	---	---
Glycol	%	█ NEG	---	---	---
Fuel	%	█ <1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ <1	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm. Aluminum ppm levels are abnormal. Piston wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



WEAR METALS

Iron	ppm	█ 33	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	▲ 22	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 45	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 24	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	█ <1	---	---	---



ADDITIVES

Calcium	ppm	█ 1331	---	---	---
Magnesium	ppm	█ 897	---	---	---
Zinc	ppm	█ 1259	---	---	---
Phosphorus	ppm	█ 1107	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 18	---	---	---

Depot: MARVER
Unique No: 5604807
Signed: Kevin Marson
Report Date: 05 Jul 2023



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GRAPHS

