



CONSTRUCTION EQUIPMENT

VOLVO L220G 12742 - DIESEL ENGINE



Sample No: VCE032488
Oil Type: PETRO CANADA DURON UHP 5W40
Job No:



SAMPLE INFORMATION

Sample Number	VCE032488	---	---	---
Sample Date	14 Sep 2020	---	---	---
Machine Hours	23756	---	---	---
Oil Hours	23756	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ATTENTION	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	■ 84.2	---	---	---
Visc @ 100°C	cSt	■ 13.8	---	---	---
Viscosity Index (VI)	Scale	■ 168	---	---	---
Oxidation (PA)	%	■ 67	---	---	---

Diagnosis

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. Metal levels are typical for a components first oil change. Test for glycol is positive. There is a light concentration of glycol present in the oil. The condition of the oil is acceptable for the time in service. The oil is no longer serviceable due to the presence of contaminants.



CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	■ 59	---	---	---
Sulfation (PA)	%	■ 56	---	---	---
Glycol	%	▲ 0.037	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	■ 6	---	---	---
Sodium	ppm	▲ 131	---	---	---
Potassium	ppm	■ 2	---	---	---



WEAR METALS

Iron	ppm	■ 4	---	---	---
Copper	ppm	■ <1	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 58	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 900	---	---	---
Magnesium	ppm	■ 1095	---	---	---
Zinc	ppm	■ 1266	---	---	---
Phosphorus	ppm	■ 1081	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 17	---	---	---

Depot: STRGRA
Unique No: 5107827
Signed: Kevin Marson
Report Date: 18 Sep 2020



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GRAPHS

