



CONSTRUCTION EQUIPMENT

SURELINE PROJECTS SL23-089 64002 - DIESEL ENGINE



Sample No: VCP369847
Oil Type: PHILLIPS SYN 5W40
Job No: SL23-089



SAMPLE INFORMATION

Sample Number	VCP369847	VCP369842	---	---
Sample Date	15 Nov 2023	04 Oct 2023	---	---
Machine Hours	502	252	---	---
Oil Hours	502	252	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

GREAT WEST EQUIPMENT
P.O. BOX 6067, 12623 CHARLIE LAKE FRONTAGE RD
FORT ST. JOHN, BC
CA V1J 2B0
Contact: Mathew Stockley
mstockley@gwequipmnet.com
T: (250)785-4223
F: (250)785-4237



OIL CONDITION

Visc @ 100°C	cSt	12.6	10.9	---	---
Oxidation (PA)	%	56	58	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0	0	---	---
Nitration (PA)	%	69	69	---	---
Sulfation (PA)	%	52	51	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.6	---	---
Silicon	ppm	11	24	---	---
Sodium	ppm	2	4	---	---
Potassium	ppm	1	3	---	---

Diagnosis
Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	6	8	---	---
Copper	ppm	4	20	---	---
Lead	ppm	<1	1	---	---
Tin	ppm	<1	1	---	---
Aluminum	ppm	2	2	---	---
Chromium	ppm	0	0	---	---
Molybdenum	ppm	7	77	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	91	4	---	---
Silver	ppm	<1	<1	---	---
Manganese	ppm	0	1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	1425	2129	---	---
Magnesium	ppm	641	88	---	---
Zinc	ppm	1140	1128	---	---
Phosphorus	ppm	955	962	---	---
Barium	ppm	<1	<1	---	---
Boron	ppm	113	63	---	---

Depot: VOLVO5076
Unique No: 5694186
Signed: Wes Davis
Report Date: 06 Dec 2023



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GRAPHS

