



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
SURELINE PROJECTS [SL23-089]

Machine Id
64002

Component
Diesel Engine

Fluid
PHILLIPS SYN 5W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP369847	VCP369842	---
Sample Date		Client Info		15 Nov 2023	04 Oct 2023	---
Machine Age	hrs	Client Info		502	252	---
Oil Age	hrs	Client Info		502	252	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	6	8	---
Chromium	ppm	ASTM D5185(m)	>20	0	0	---
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	---
Titanium	ppm	ASTM D5185(m)		91	4	---
Silver	ppm	ASTM D5185(m)	>2	<1	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	2	2	---
Lead	ppm	ASTM D5185(m)	>40	<1	1	---
Copper	ppm	ASTM D5185(m)	>330	4	20	---
Tin	ppm	ASTM D5185(m)	>15	<1	1	---
Vanadium	ppm	ASTM D5185(m)		<1	0	---

CONTAMINATION

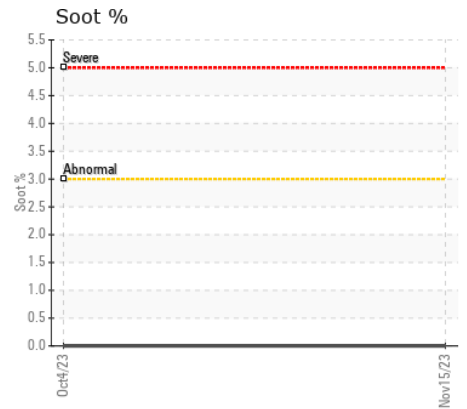
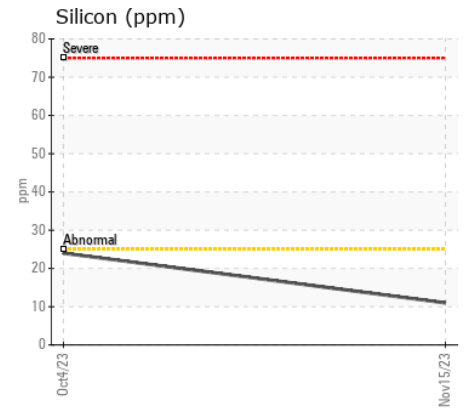
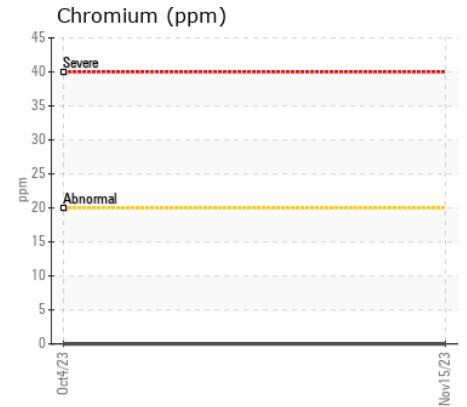
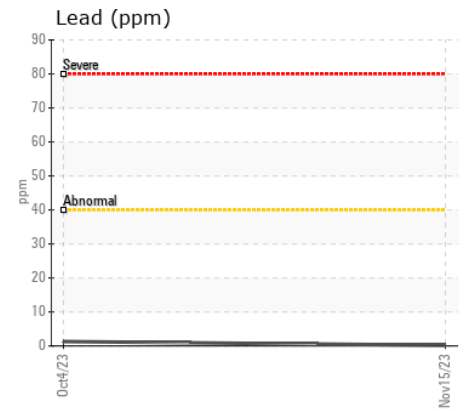
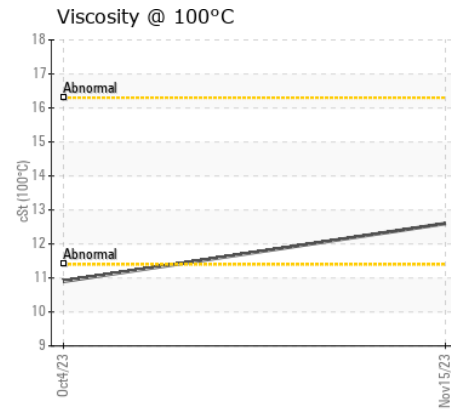
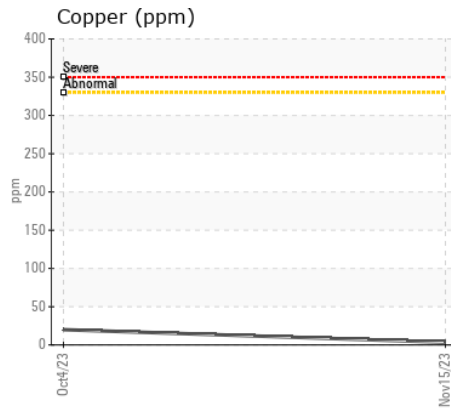
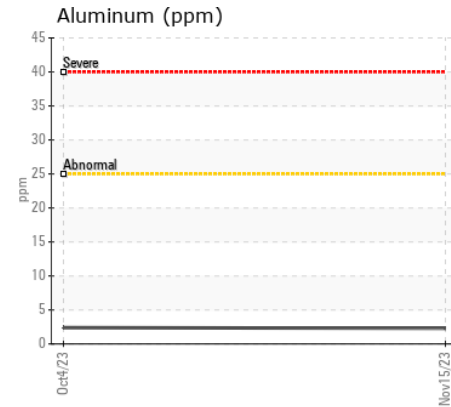
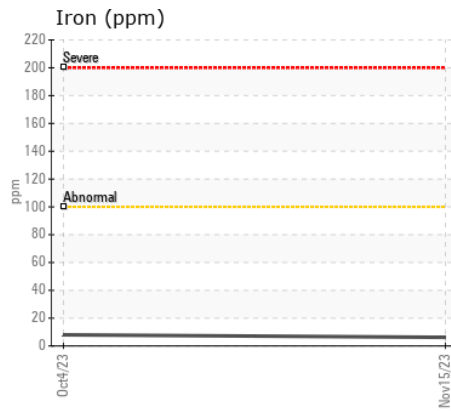
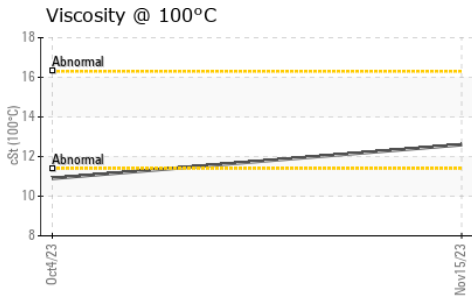
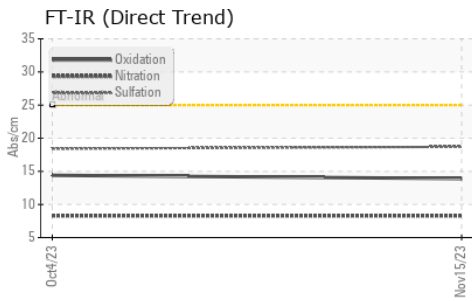
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	11	24	---
Potassium	ppm	ASTM D5185(m)	>20	1	3	---
Fuel		WC Method	>6.0	<1.0	0.6	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	8.3	8.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.7	18.4	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	4	---
Boron	ppm	ASTM D5185(m)		113	63	---
Barium	ppm	ASTM D5185(m)		<1	<1	---
Molybdenum	ppm	ASTM D5185(m)		7	77	---
Manganese	ppm	ASTM D5185(m)		0	1	---
Magnesium	ppm	ASTM D5185(m)		641	88	---
Calcium	ppm	ASTM D5185(m)		1425	2129	---
Phosphorus	ppm	ASTM D5185(m)		955	962	---
Zinc	ppm	ASTM D5185(m)		1140	1128	---
Sulfur	ppm	ASTM D5185(m)		3100	3272	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.9	14.4	---
Visc @ 100°C	cSt	ASTM D7279(m)		12.6	10.9	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP369847
Lab Number : 02601101
Unique Number : 5694186
Test Package : MOB 1

Received : 06 Dec 2023
Tested : 06 Dec 2023
Diagnosed : 06 Dec 2023 - Wes Davis

GREAT WEST EQUIPMENT
 P.O. BOX 6067, 12623 CHARLIE LAKE FRONTAGE RD
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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.