



VOLVO

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
[SMITH CROSSING]
Machine Id
VOLVO EC350E 272 (S/N 310740)
Component
Rear Left Final Drive
Fluid
VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP372142	---	---
Sample Date		Client Info		26 Jul 2022	---	---
Machine Age	hrs	Client Info		2066	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	▲ 1013	---	---
Chromium	ppm	ASTM D5185m	>10	▲ 17	---	---
Nickel	ppm	ASTM D5185m		2	---	---
Titanium	ppm	ASTM D5185m		6	---	---
Silver	ppm	ASTM D5185m		<1	---	---
Aluminum	ppm	ASTM D5185m	>25	▲ 110	---	---
Lead	ppm	ASTM D5185m	>25	<1	---	---
Copper	ppm	ASTM D5185m	>50	2	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	MODER	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

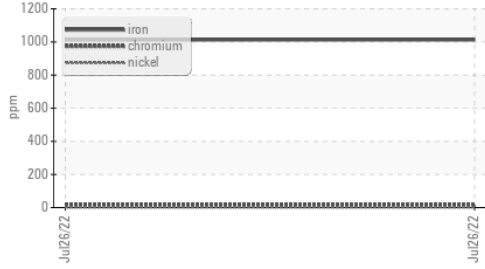
Silicon	ppm	ASTM D5185m	>75	▲ 271	---	---
Potassium	ppm	ASTM D5185m	>20	24	---	---
Water		WC Method	>0.2	NEG	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---

FLUID CONDITION

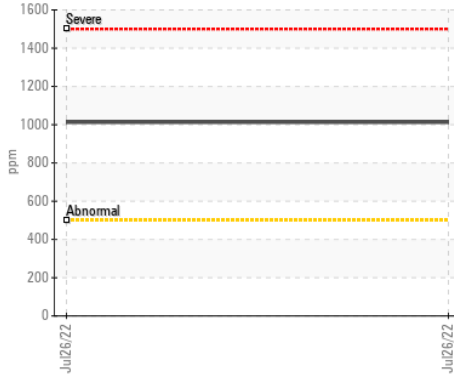
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		16	---	---
Boron	ppm	ASTM D5185m	379	2	---	---
Barium	ppm	ASTM D5185m	0.0	2	---	---
Molybdenum	ppm	ASTM D5185m	0.8	1	---	---
Manganese	ppm	ASTM D5185m	0.0	10	---	---
Magnesium	ppm	ASTM D5185m	31	12	---	---
Calcium	ppm	ASTM D5185m	38	18	---	---
Phosphorus	ppm	ASTM D5185m	1077	375	---	---
Zinc	ppm	ASTM D5185m	46	18	---	---
Sulfur	ppm	ASTM D5185m	23526	13208	---	---
Visc @ 40°C	cSt	ASTM D445	139	183	---	---

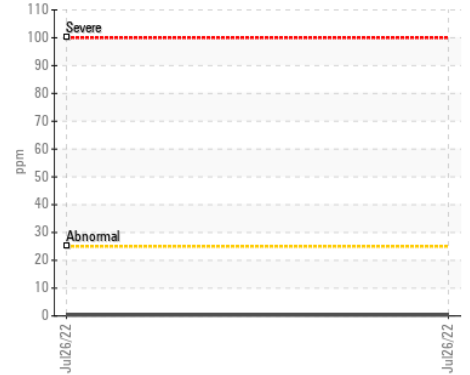
▲ Ferrous Alloys



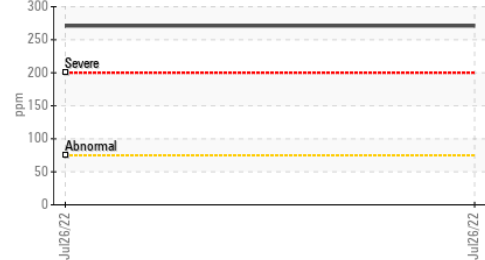
▲ Iron (ppm)



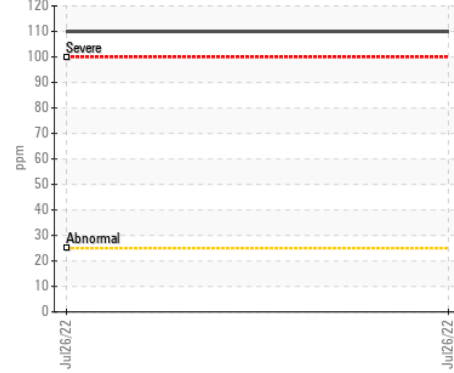
▲ Lead (ppm)



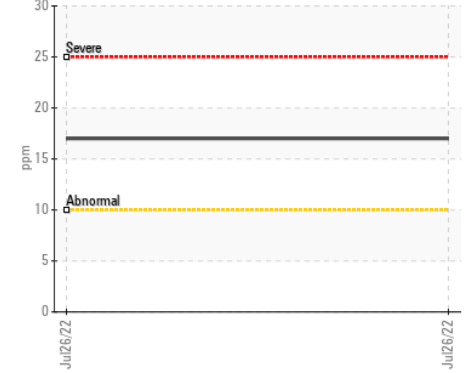
▲ Silicon (ppm)



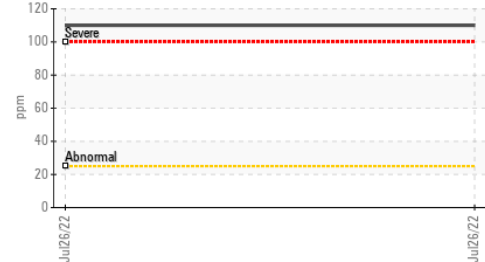
▲ Aluminum (ppm)



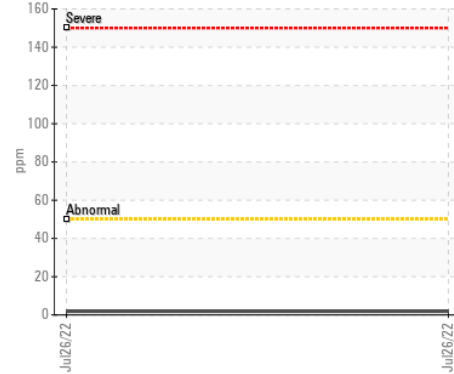
▲ Chromium (ppm)



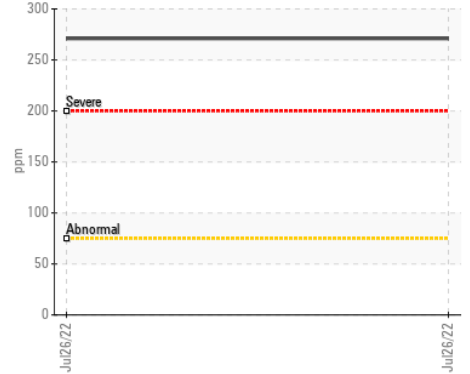
▲ Aluminum (ppm)



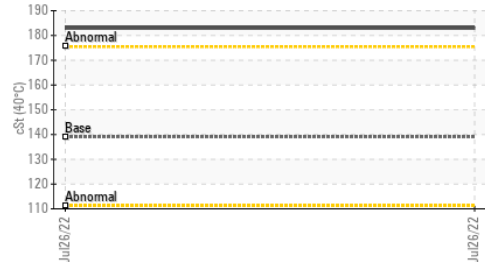
▲ Copper (ppm)



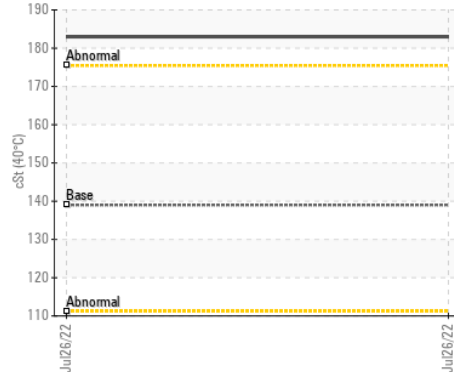
▲ Silicon (ppm)



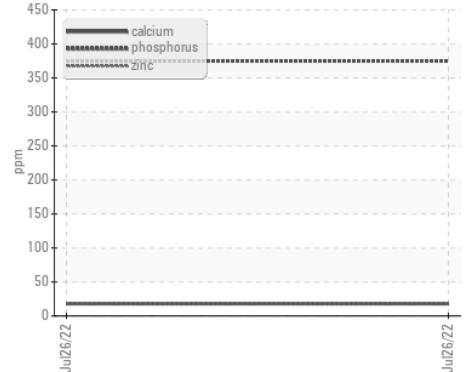
Viscosity @ 40°C



Viscosity @ 40°C



▲ Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : VCP372142

Lab Number : 05612965

Unique Number : 10087459

Test Package : MOB 1

Received : 09 Aug 2022

Tested : 10 Aug 2022

Diagnosed : 11 Aug 2022 - Don Baldrige

LEOTERRA DEVELOPMENT INC

110 SHIELDS PARK DR

KERNERSVILLE, NC

US 27284

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F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)