McCLUNG-LOGAN EQUIPMENT COMPANY, INC.

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
VOLVO EC350E 310403
Component
Right Travel
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

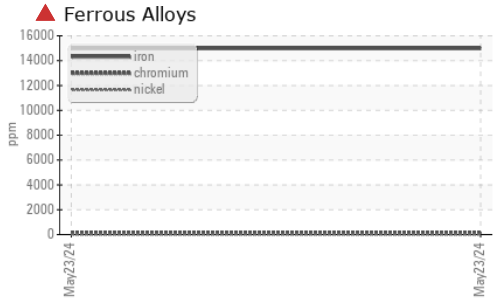
CONTAMINATION

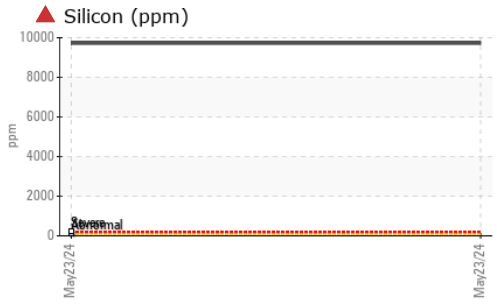
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate concentration of water present in the oil.

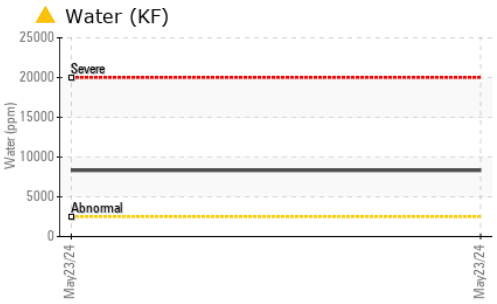
FLUID CONDITION

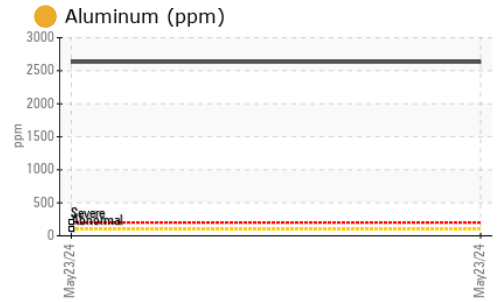
The oil is no longer serviceable due to the presence of contaminants.

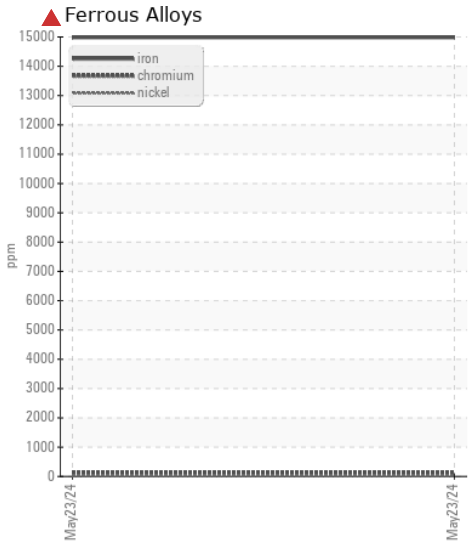
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0001960	---	---
Sample Date		Client Info		23 May 2024	---	---
Machine Age	hrs	Client Info		9621	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>1200	▲ 14983	---	---
Chromium	ppm	ASTM D5185m	>20	▲ 120	---	---
Nickel	ppm	ASTM D5185m	>5	▲ 13	---	---
Titanium	ppm	ASTM D5185m		265	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>100	● 2632	---	---
Lead	ppm	ASTM D5185m	>50	2	---	---
Copper	ppm	ASTM D5185m	>50	34	---	---
Tin	ppm	ASTM D5185m	>5	3	---	---
Vanadium	ppm	ASTM D5185m		7	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>100	▲ 9723	---	---
Potassium	ppm	ASTM D5185m	>20	733	---	---
Water	%	ASTM D6304	>0.25	▲ 0.833	---	---
ppm Water	ppm	ASTM D6304	>2500	▲ 8330	---	---
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	>0.25	▲ 0.2%	---	---
Sodium	ppm	ASTM D5185m	>170	389	---	---
Boron	ppm	ASTM D5185m	400	97	---	---
Barium	ppm	ASTM D5185m	200	17	---	---
Molybdenum	ppm	ASTM D5185m	12	19	---	---
Manganese	ppm	ASTM D5185m		118	---	---
Magnesium	ppm	ASTM D5185m	12	410	---	---
Calcium	ppm	ASTM D5185m	150	493	---	---
Phosphorus	ppm	ASTM D5185m	1650	687	---	---
Zinc	ppm	ASTM D5185m	125	31	---	---
Sulfur	ppm	ASTM D5185m	22500	77716	---	---

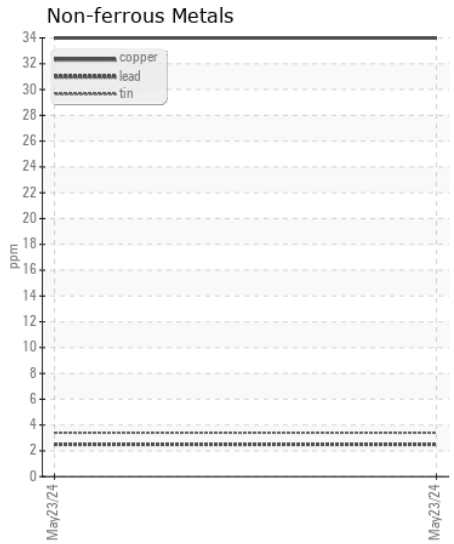












Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0001960 **Received** : 29 May 2024
Lab Number : 06194444 **Tested** : 31 May 2024
Unique Number : 11056567 **Diagnosed** : 31 May 2024 - Sean Felton
Test Package : CONST (Additional Tests: KF)

Certificate L2367

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)

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