

WEAR CONTAMINATION FLUID CONDITION

SEVERE SEVERE NORMAL



TPR-Houston Port
Machine Id
110119 VOLVO EC330CL 110119

**Left Final Drive** 

{not provided} (5 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. Please specify the brand, type, and viscosity of the oil on your next sample.

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ext	

Silt

Debris

Odor

Sand/Dirt

Appearance

scalar

scalar

scalar

scalar

scalar

\*Visual

\*Visual

\*Visual

\*Visual

\*Visual

## WEAR

Gear wear is indicated.

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		$\Delta M$			

Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (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		DJJ0018928	DJJ0001455	DJJ020460
Sample Date		Client Info		11 Feb 2024	20 Sep 2020	26 Oct 2018
Machine Age	hrs	Client Info		12279	10154	8656
Oil Age	hrs	Client Info		0	500	1000
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>500	<b>7</b> 021	<b>4224</b>	<b>2182</b>
Chromium	ppm	ASTM D5185m	>10	<b>0</b> 70	<b>4</b> 1	<u>^</u> 23
Nickel	ppm	ASTM D5185m	>10	<u> </u>	4	2
Titanium	ppm	ASTM D5185m		38	25	9
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>271</b>	<b>194</b>	<b>1</b> 76
Lead	ppm	ASTM D5185m	>25	9	4	3
Copper	ppm	ASTM D5185m	>50	21	10	5
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	2009	1372	<b>5</b> 41
Potassium	ppm	ASTM D5185m	>20	52	38	17
Water	%	ASTM D6304	>0.2	<b>△</b> 0.502		0.144
ppm Water	ppm	ASTM D6304	>2000	<u></u> 5020		1440

Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	0.2%
Sodium	ppm	ASTM D5185m		28	18	9
Boron	ppm	ASTM D5185m		219	111	137
Barium	ppm	ASTM D5185m		34	15	1
Molybdenum	ppm	ASTM D5185m		15	0	0
Manganese	ppm	ASTM D5185m		47	28	15
Magnesium	ppm	ASTM D5185m		90	48	24
Calcium	ppm	ASTM D5185m		1335	865	445
Phosphorus	ppm	ASTM D5185m		1378	725	995
Zinc	ppm	ASTM D5185m		114	80	59
Sulfur	ppm	ASTM D5185m		20494	52740	32053
Visc @ 40°C	cSt	ASTM D445		159	▲ 321	140.4

NONE

NONE

NONE

NORML

NORMI

NONE

NONE

NONE

**NORML** 

NORML

NONE

NONE

NONE

NORML

NORMI

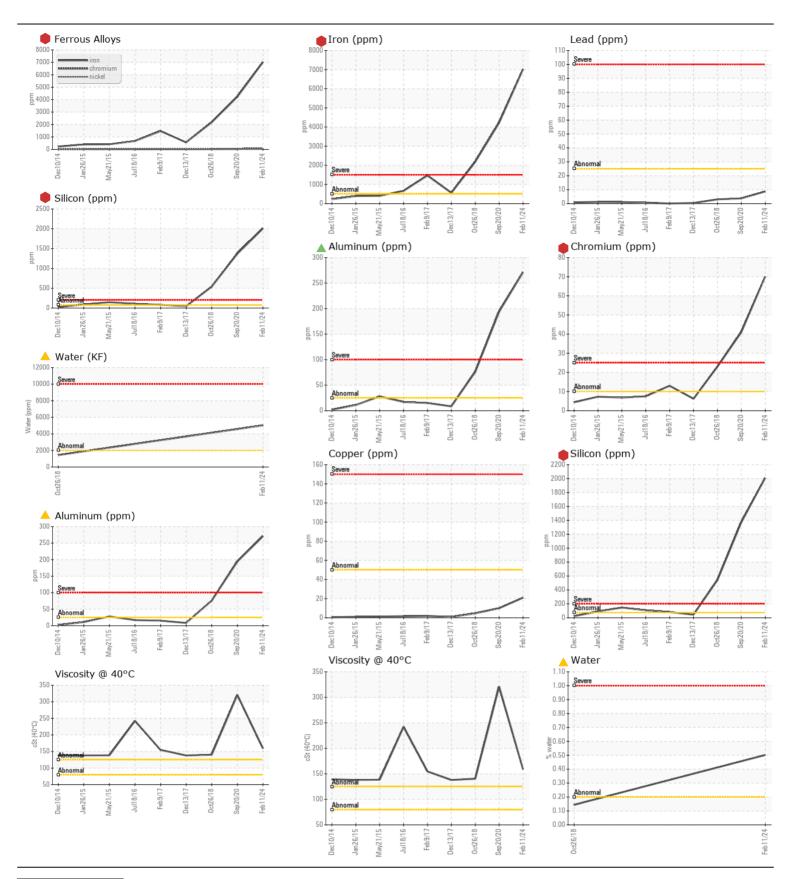
NONE

NONE

NONE

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Laboratory

Sample No. Lab Number

: DJJ0018928

: 06086327

Unique Number : 10873772 Diagnosed Test Package : MOBCE ( Additional Tests: KF )

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 12 Feb 2024 Received : 13 Feb 2024 **Tested** 

: 13 Feb 2024 - Sean Felton

**TEXAS PORT RECYCLING - HOUSTON PORT** 8945 MANCHESTER ST

HOUSTON, TX US 77012

Contact: ROBERT BARKER robert.barker@texasportrecycling.com

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. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (713)921-5545