



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

SEVERE
SEVERE
ATTENTION



Area
TPR-Houston Port
Machine Id
110119 VOLVO EC330CL 110119
Component
Right Final Drive
Fluid
MOBIL MOBILUBE HD LS 80W90 (5 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. 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.

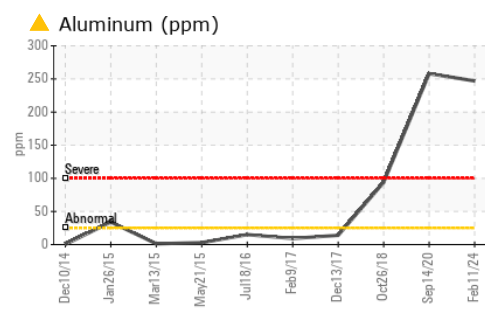
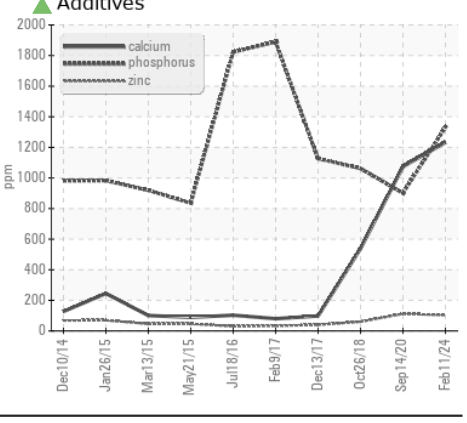
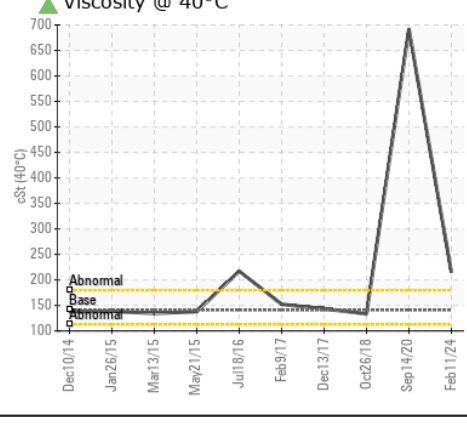
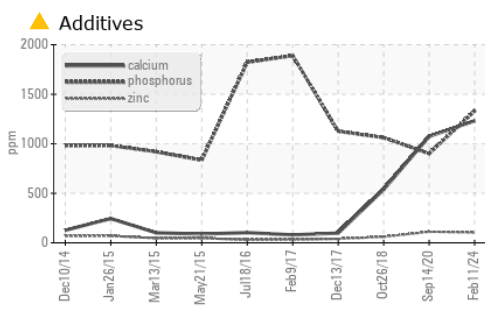
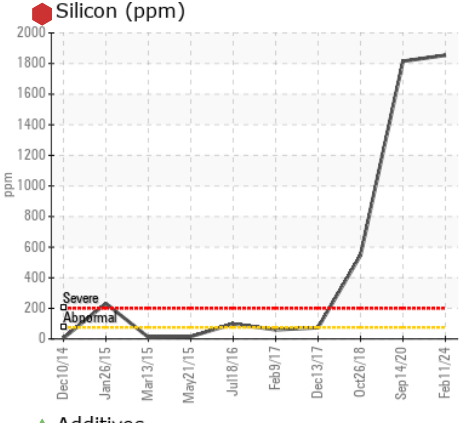
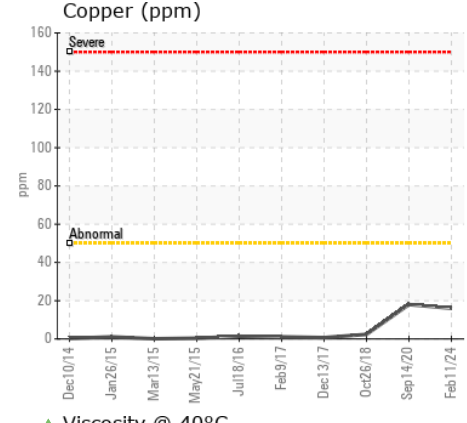
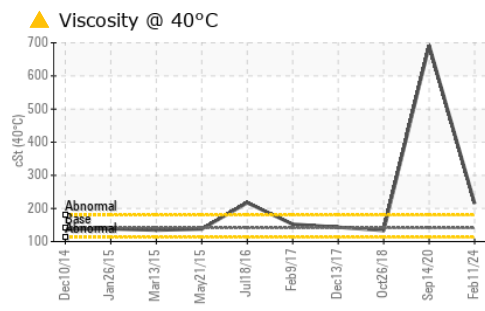
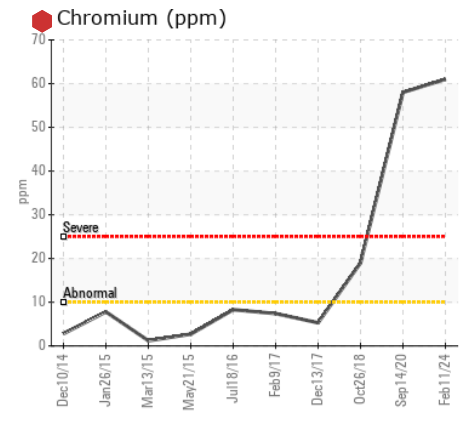
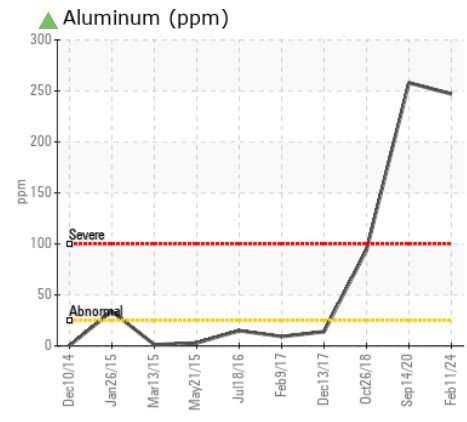
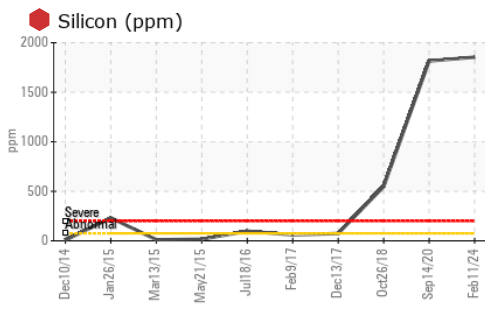
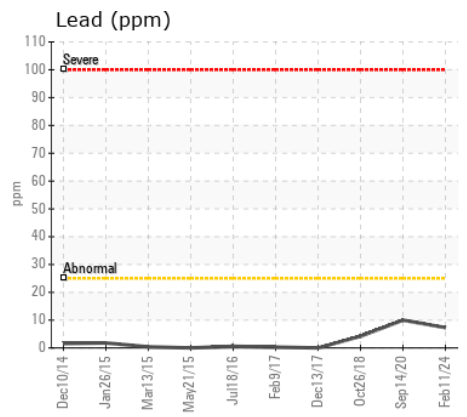
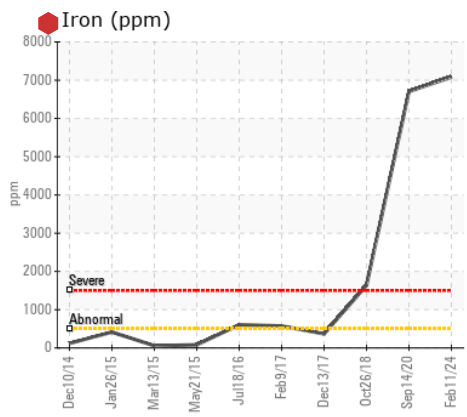
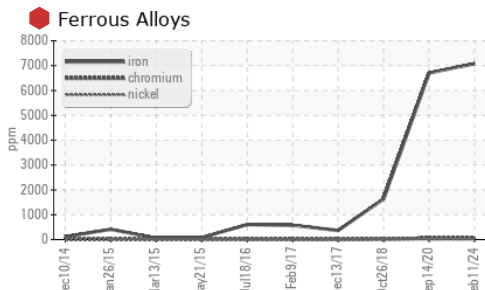
CONTAMINATION

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

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0018930	DJJ0001453	DJJ020804
Sample Date		Client Info		11 Feb 2024	14 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	7082	6705	1639
Chromium	ppm	ASTM D5185m	>10	61	58	19
Nickel	ppm	ASTM D5185m	>10	10	8	2
Titanium	ppm	ASTM D5185m		35	34	11
Silver	ppm	ASTM D5185m		0	13	0
Aluminum	ppm	ASTM D5185m	>25	247	258	94
Lead	ppm	ASTM D5185m	>25	7	10	4
Copper	ppm	ASTM D5185m	>50	16	18	2
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	1	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	1854	1815	547
Potassium	ppm	ASTM D5185m	>20	46	49	21
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	0.2%
Sodium	ppm	ASTM D5185m		24	21	12
Boron	ppm	ASTM D5185m		221	202	158
Barium	ppm	ASTM D5185m		35	16	2
Molybdenum	ppm	ASTM D5185m		14	15	0
Manganese	ppm	ASTM D5185m		43	42	14
Magnesium	ppm	ASTM D5185m		81	67	27
Calcium	ppm	ASTM D5185m		1232	1074	538
Phosphorus	ppm	ASTM D5185m		1330	901	1062
Zinc	ppm	ASTM D5185m		104	112	60
Sulfur	ppm	ASTM D5185m		22367	34552	23546
Visc @ 40°C	cSt	ASTM D445	141	215	692	133.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0018930
Lab Number : 06086339
Unique Number : 10873784
Test Package : MOBCE

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.

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

F: (713)921-5545