



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

SEVERE
SEVERE
ATTENTION



Machine Id
310571 VOLVO EC480E 310571

Component
Right Final Drive

Fluid
CHEVRON DELO GEAR ESI OIL 80W90 (--- 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

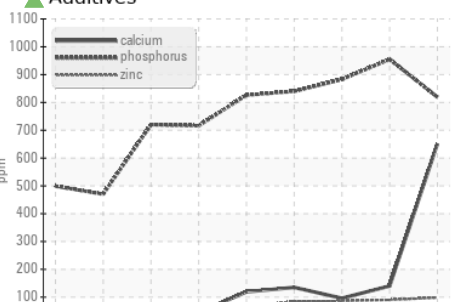
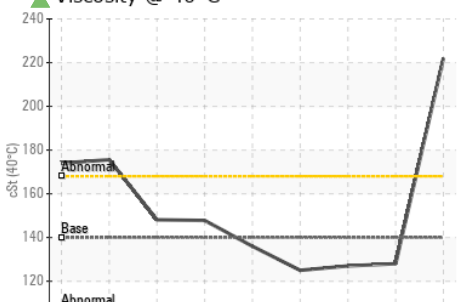
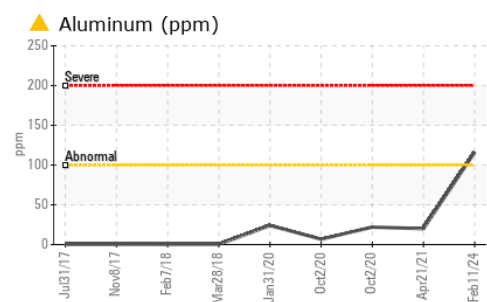
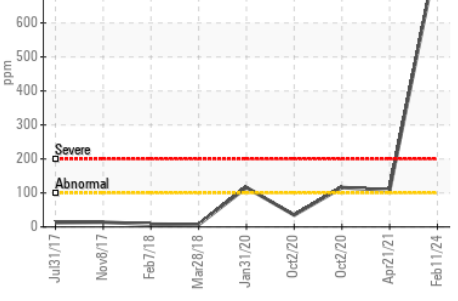
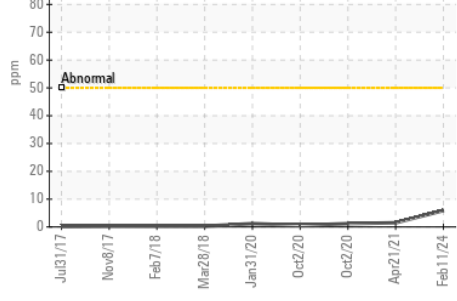
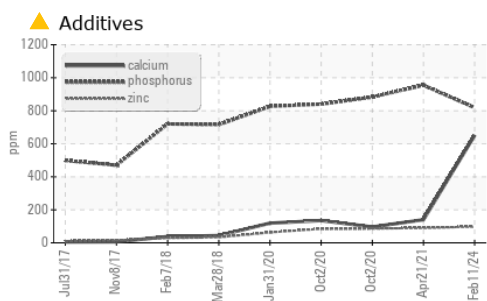
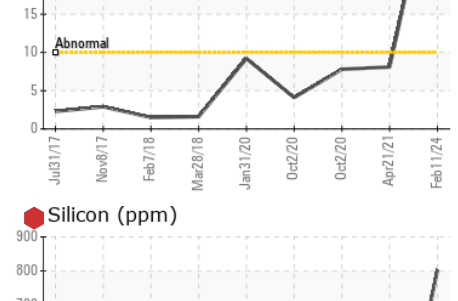
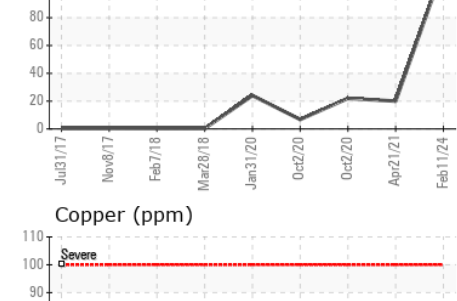
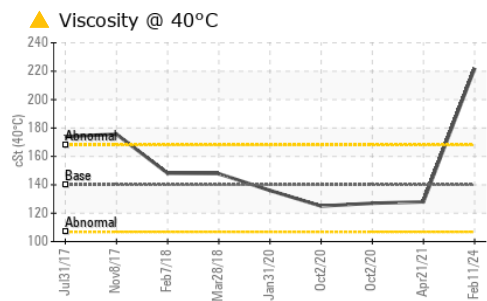
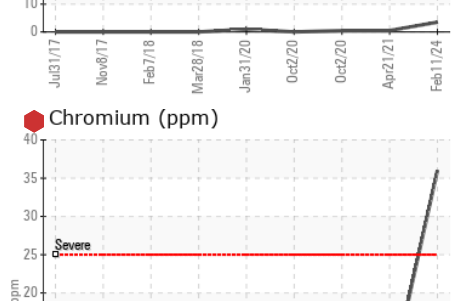
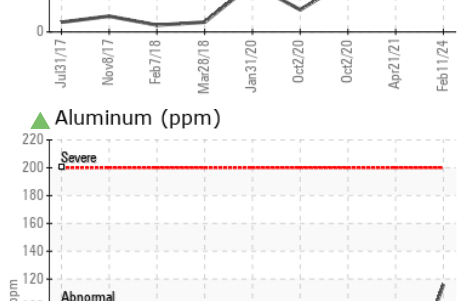
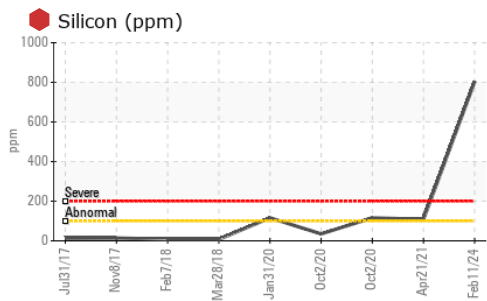
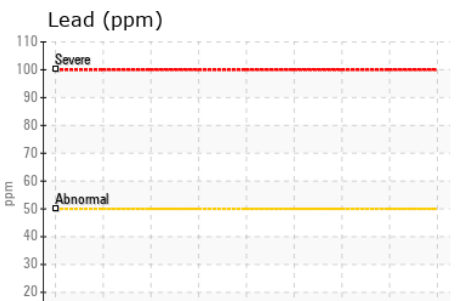
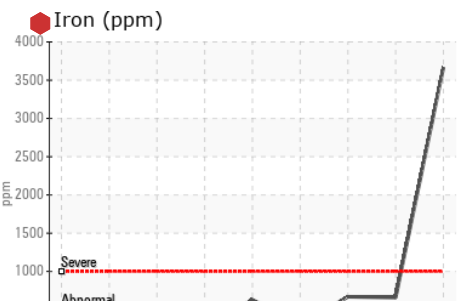
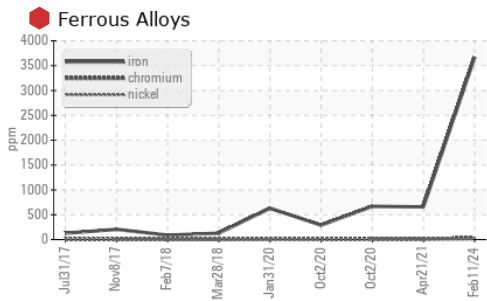
Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0018903	DJJ0010136	DJJ0001721
Sample Date		Client Info		11 Feb 2024	21 Apr 2021	02 Oct 2020
Machine Age	hrs	Client Info		0	4876	4359
Oil Age	hrs	Client Info		0	1000	1000
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	NORMAL

Iron	ppm	ASTM D5185m	>500	3665	658	289
Chromium	ppm	ASTM D5185m	>10	36	8	4
Nickel	ppm	ASTM D5185m	>10	5	<1	0
Titanium	ppm	ASTM D5185m		16	3	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>100	116	20	7
Lead	ppm	ASTM D5185m	>50	4	<1	0
Copper	ppm	ASTM D5185m	>50	6	2	<1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>100	803	108	35
Potassium	ppm	ASTM D5185m	>20	20	3	2
Water		WC Method	>0.25	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	>0.25	NEG	NEG	NEG

Sodium	ppm	ASTM D5185m		10	2	<1
Boron	ppm	ASTM D5185m	15	159	122	105
Barium	ppm	ASTM D5185m	0	14	0	0
Molybdenum	ppm	ASTM D5185m	0	9	6	6
Manganese	ppm	ASTM D5185m		32	7	3
Magnesium	ppm	ASTM D5185m	0	56	27	28
Calcium	ppm	ASTM D5185m	5	651	140	96
Phosphorus	ppm	ASTM D5185m	600	819	955	883
Zinc	ppm	ASTM D5185m	0	98	90	86
Sulfur	ppm	ASTM D5185m	22000	24552	13020	14918
Visc @ 40°C	cSt	ASTM D445	140	222	128	127



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0018903
Lab Number : 06086336
Unique Number : 10873781
Test Package : MOBCE

TEXAS PORT RECYCLING - HOUSTON PORT
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 Contact: Dale Shaw
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 F: (713)921-5545

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)