



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

SEVERE
SEVERE
ATTENTION



Machine Id
310571 VOLVO EC480E 310571

Component
Left 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

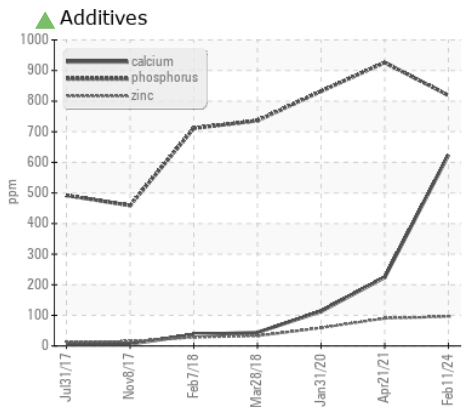
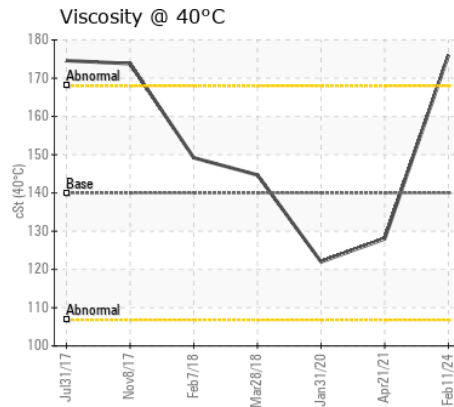
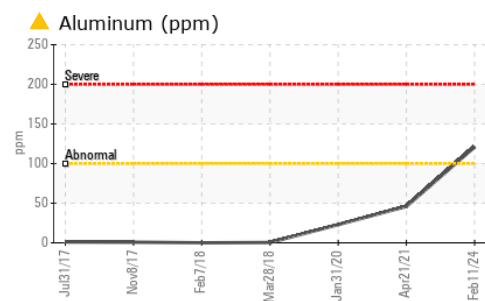
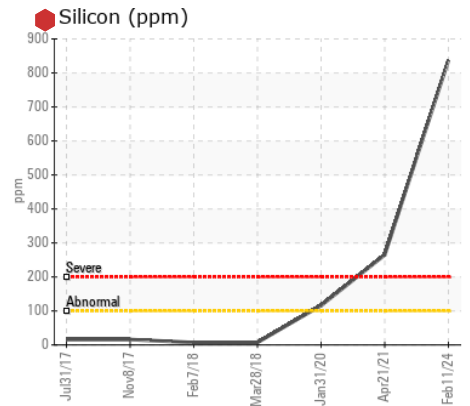
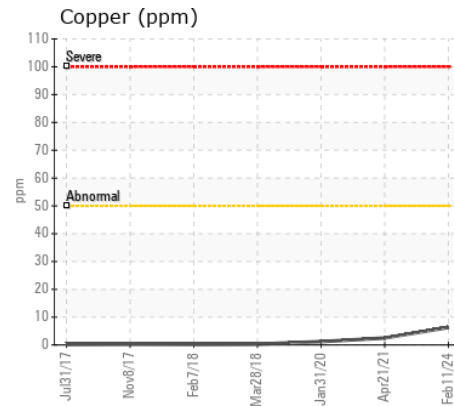
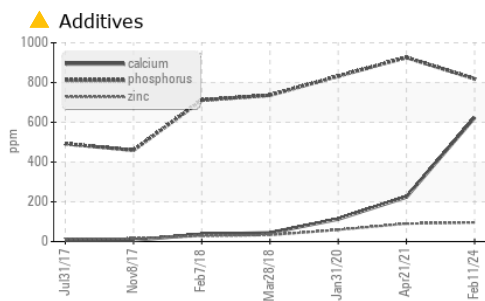
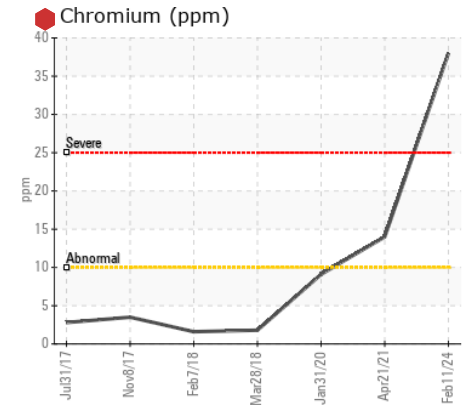
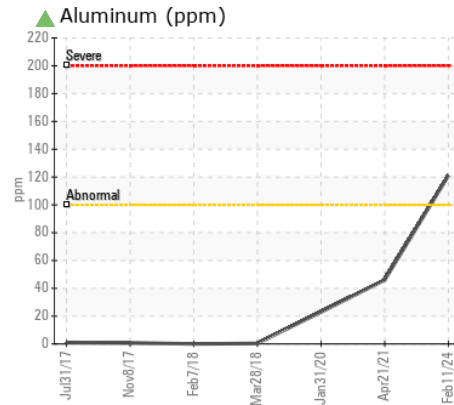
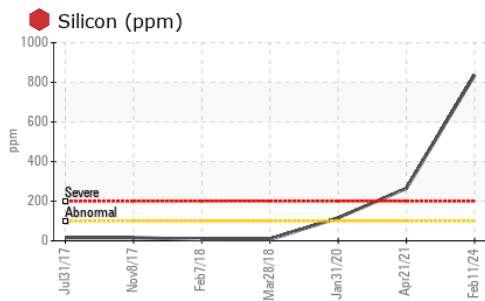
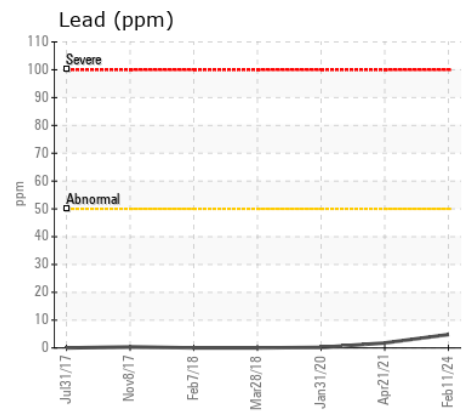
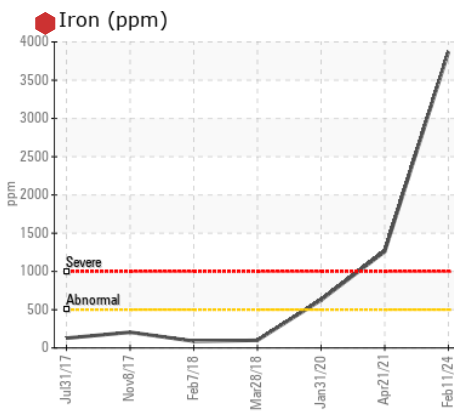
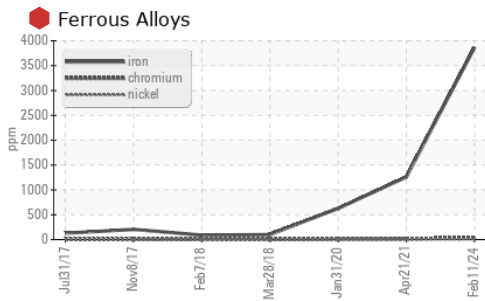
Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0018902	DJJ0010137	DJJ0001806
Sample Date		Client Info		11 Feb 2024	21 Apr 2021	31 Jan 2020
Machine Age	hrs	Client Info		0	4876	3830
Oil Age	hrs	Client Info		0	1000	1000
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	ABNORMAL

Iron	ppm	ASTM D5185m	>500	3869	1260	627
Chromium	ppm	ASTM D5185m	>10	38	14	9
Nickel	ppm	ASTM D5185m	>10	5	<1	1
Titanium	ppm	ASTM D5185m		17	6	3
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>100	121	46	23
Lead	ppm	ASTM D5185m	>50	5	2	<1
Copper	ppm	ASTM D5185m	>50	6	2	1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>100	837	265	116
Potassium	ppm	ASTM D5185m	>20	20	7	22
Water		WC Method	>0.25	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	4	2
Boron	ppm	ASTM D5185m	15	129	142	62
Barium	ppm	ASTM D5185m	0	13	0	1
Molybdenum	ppm	ASTM D5185m	0	9	7	1
Manganese	ppm	ASTM D5185m		32	12	6
Magnesium	ppm	ASTM D5185m	0	55	31	15
Calcium	ppm	ASTM D5185m	5	624	224	113
Phosphorus	ppm	ASTM D5185m	600	819	926	832
Zinc	ppm	ASTM D5185m	0	96	90	59
Sulfur	ppm	ASTM D5185m	22000	26736	13489	14859
Visc @ 40°C	cSt	ASTM D445	140	176	128	122



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0018902 **Received** : 12 Feb 2024
Lab Number : 06086337 **Tested** : 13 Feb 2024
Unique Number : 10873782 **Diagnosed** : 13 Feb 2024 - Sean Felton
Test Package : MOBCE

TEXAS PORT RECYCLING - HOUSTON PORT
 8945 MANCHESTER ST
 HOUSTON, TX
 US 77012
 Contact: Dale Shaw
 dale.shaw@tmrecycling.com
 T:
 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)