



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
310571 VOLVO EC480E 310571
Component
Hydraulic System
Fluid
CHEVRON HYDRAULIC AW ISO 68 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0018901	DJJ0010138	DJJ0001722
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	2000
Filter Age	hrs	Client Info		0	1000	2000
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>25	5	7	5
Chromium	ppm	ASTM D5185m	>10	<1	4	4
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	0
Lead	ppm	ASTM D5185m	>20	<1	0	0
Copper	ppm	ASTM D5185m	>150	3	3	3
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

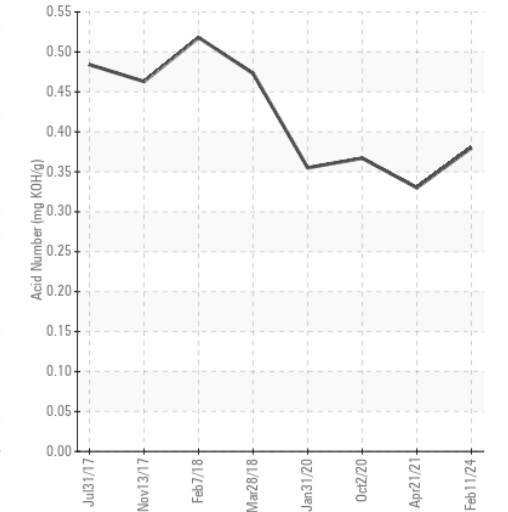
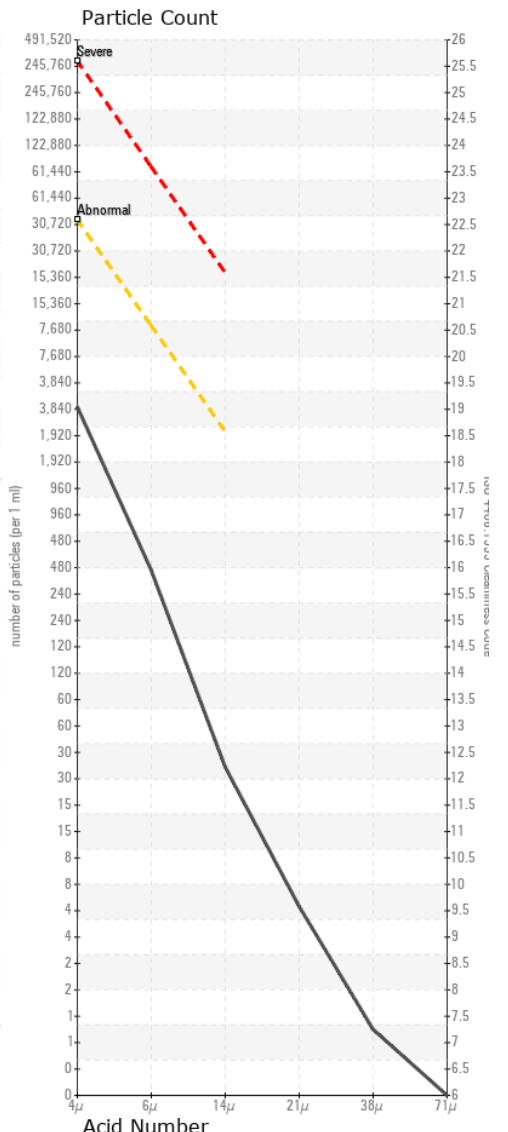
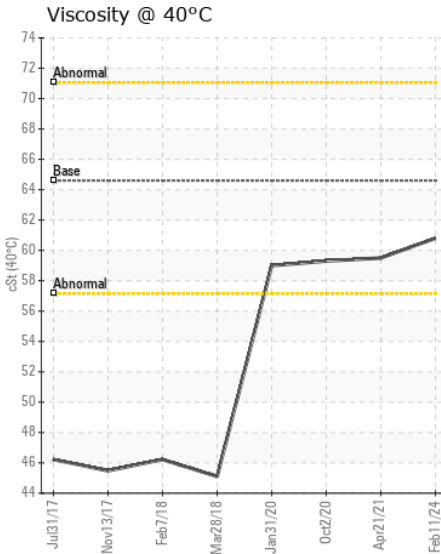
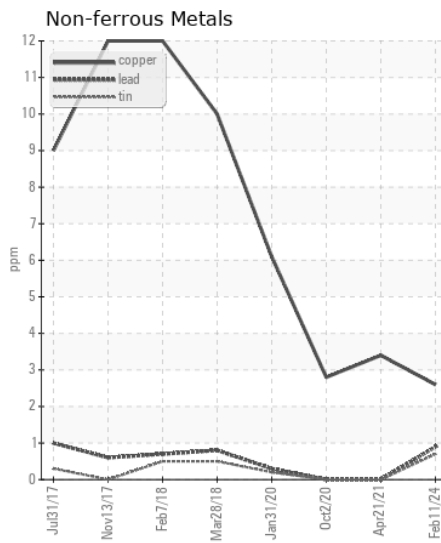
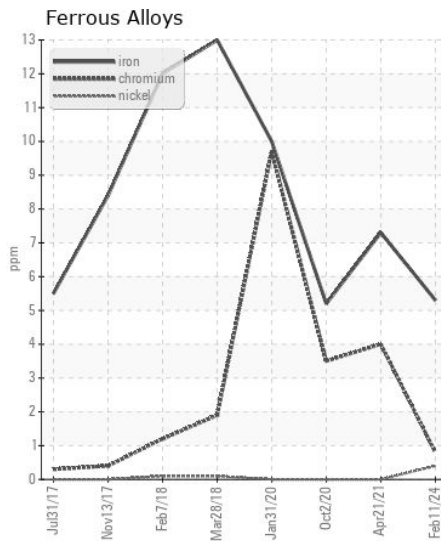
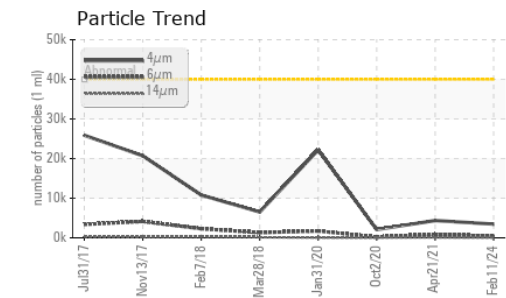
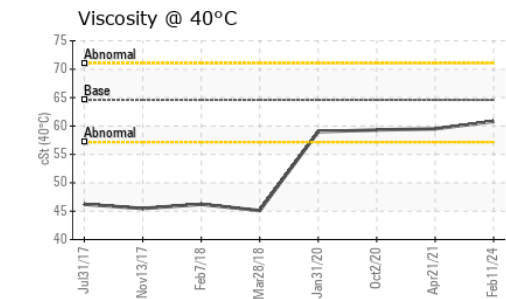
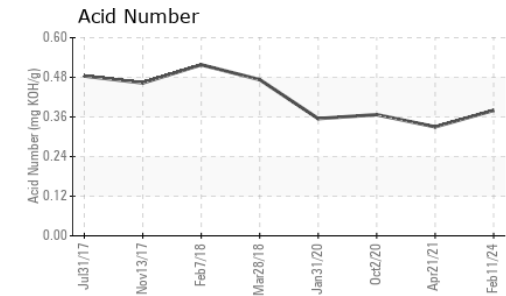
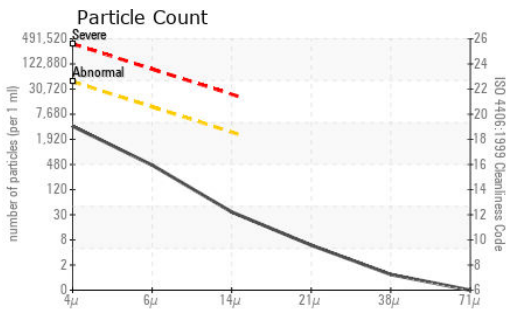
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>50	3	3	0
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>40000	3459	4366	2082
Particles >6µm		ASTM D7647	>10000	407	890	226
Particles >14µm		ASTM D7647	>2500	31	84	10
Particles >21µm		ASTM D7647	>640	5	25	3
Particles >38µm		ASTM D7647	>160	1	2	0
Particles >71µm		ASTM D7647	>40	0	0	0
Oil Cleanliness		ISO 4406 (c)	>22/20/18	19/16/12	19/17/14	18/15/10
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	1	0
Boron	ppm	ASTM D5185m		0	2	1
Barium	ppm	ASTM D5185m		13	0	0
Molybdenum	ppm	ASTM D5185m		1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		3	3	2
Calcium	ppm	ASTM D5185m		58	57	49
Phosphorus	ppm	ASTM D5185m		340	320	299
Zinc	ppm	ASTM D5185m		433	365	380
Sulfur	ppm	ASTM D5185m		2439	2348	2185
Acid Number (AN)	mg KOH/g	ASTM D8045		0.38	0.330	0.367
Visc @ 40°C	cSt	ASTM D445	64.6	60.8	59.5	59.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0018901 **Received** : 12 Feb 2024
Lab Number : 06085991 **Tested** : 13 Feb 2024
Unique Number : 10873436 **Diagnosed** : 13 Feb 2024 - Wes Davis
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)