OIL ANALYSIS REPORT

WEAR: NORMAL
CONTAMINATION: NORMAL
FLUID CONDITION: ATTENTION

Area
TPR-Pinemont
Machine Id
624944 VOLVO L90H 624944
Component
Hydraulic System
Fluid
CHEVRON HYDRAULIC OIL AW ISO 46 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

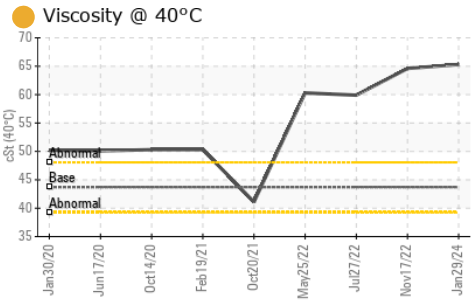
CONTAMINATION

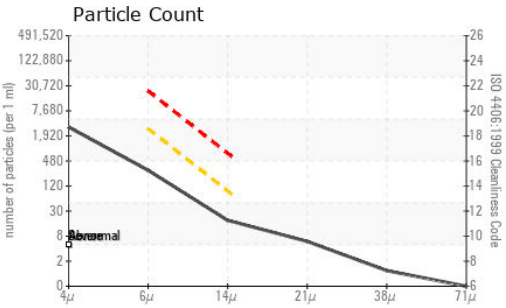
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

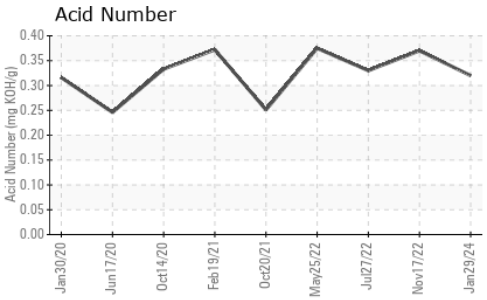
FLUID CONDITION

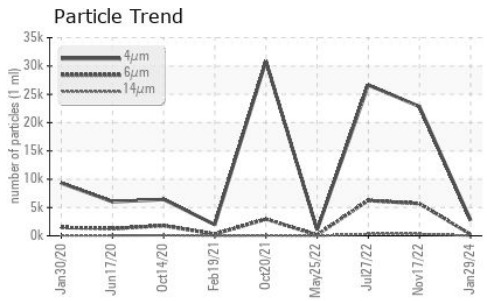
Viscosity of sample indicates oil is within ISO 68 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

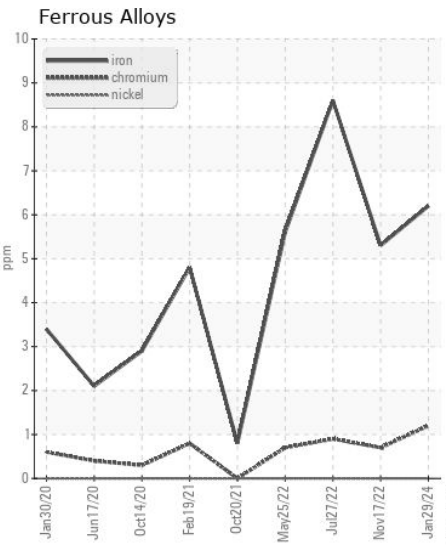
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0018894	DJJ0010240	DJJ0010334
Sample Date		Client Info		29 Jan 2024	17 Nov 2022	27 Jul 2022
Machine Age	hrs	Client Info		8964	7989	7145
Oil Age	hrs	Client Info		4000	0	0
Filter Age	hrs	Client Info		2000	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>50	6	5	9
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	1
Lead	ppm	ASTM D5185m	>20	<1	0	1
Copper	ppm	ASTM D5185m	>150	<1	<1	2
Tin	ppm	ASTM D5185m	>20	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	4	4	5
Potassium	ppm	ASTM D5185m	>20	10	0	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		2739	▲ 22842	▲ 26636
Particles >6µm		ASTM D7647	>2500	252	▲ 5695	▲ 6235
Particles >14µm		ASTM D7647	>80	16	▲ 331	▲ 310
Particles >21µm		ASTM D7647	>20	5	▲ 64	▲ 41
Particles >38µm		ASTM D7647	>4	1	4	2
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>--/18/13	19/15/11	▲ 22/20/16	▲ 22/20/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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
Sodium	ppm	ASTM D5185m		5	1	0
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m		0	4	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		6	5	3
Calcium	ppm	ASTM D5185m		74	50	52
Phosphorus	ppm	ASTM D5185m		289	323	307
Zinc	ppm	ASTM D5185m		356	414	404
Sulfur	ppm	ASTM D5185m		2045	2148	2345
Acid Number (AN)	mg KOH/g	ASTM D8045		0.32	0.37	0.33
Visc @ 40°C	cSt	ASTM D445	43.7	65.3	64.6	59.9

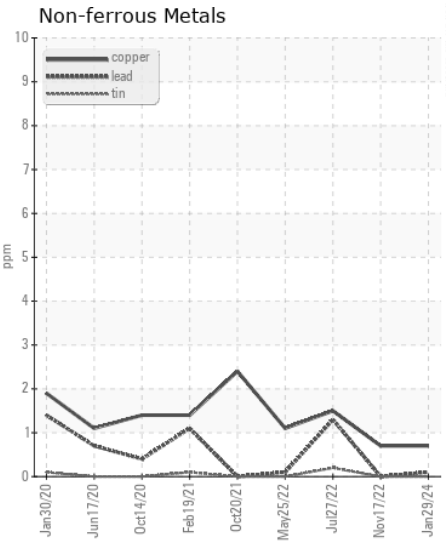


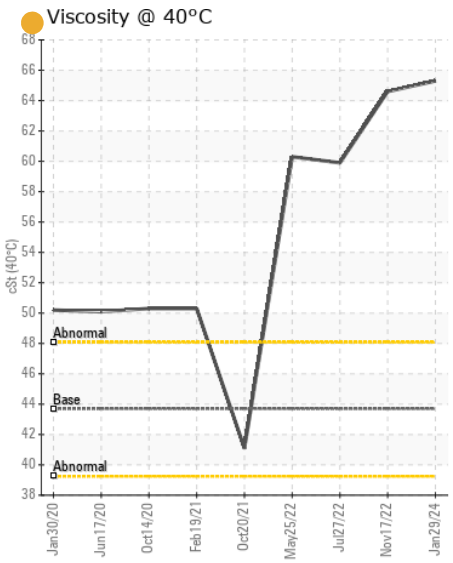


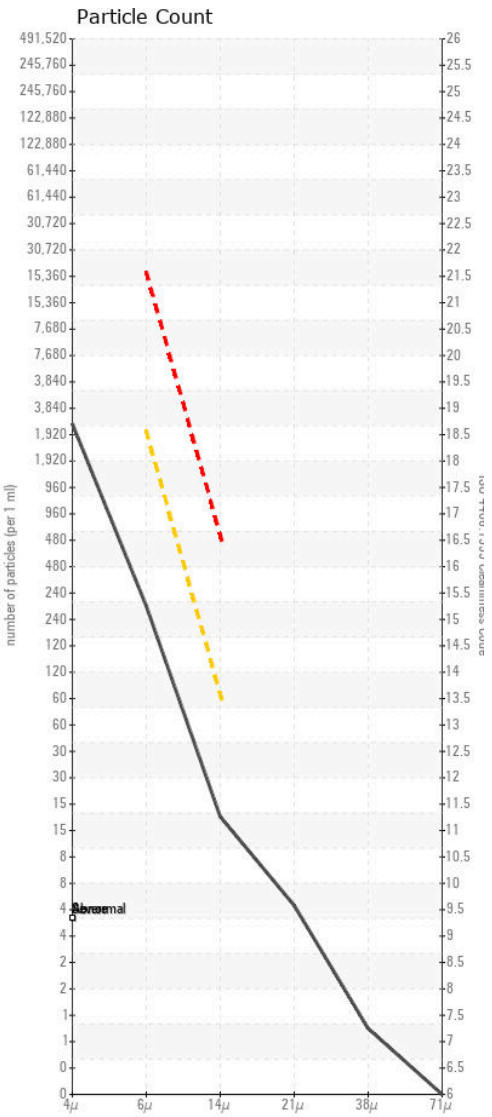


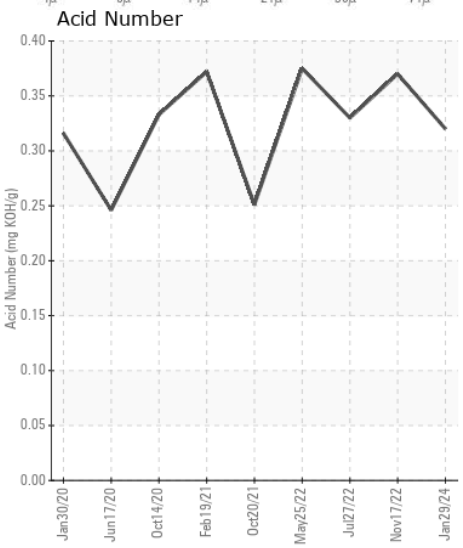












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0018894
Lab Number : 06151905
Unique Number : 10981983
Test Package : MOBCE

Received : 17 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 19 Apr 2024 - Don Baldridge

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)

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