



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Area
PCS - PORTABLE CRUSHING SERVICES
Machine Id
CATERPILLAR GN04 GENERATOR 04
Component
Diesel Engine
Fluid
CHEVRON DELO 400 SDE SAE 15W40 (150 QTS)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013790	KL0014079	KL0013021
Sample Date		Client Info		10 Apr 2024	10 Jan 2024	03 Oct 2023
Machine Age	hrs	Client Info		32363	31816	31315
Oil Age	hrs	Client Info		597	50	1630
Filter Age	hrs	Client Info		597	50	1630
Oil Changed		Client Info		N/A	Changed	Not Chngd
Filter Changed		Client Info		N/A	Changed	Not Chngd
Sample Status				ATTENTION	ATTENTION	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	21	1	13
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	1	0	1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	2	0
Lead	ppm	ASTM D5185m	>40	2	0	1
Copper	ppm	ASTM D5185m	>330	362	14	2
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

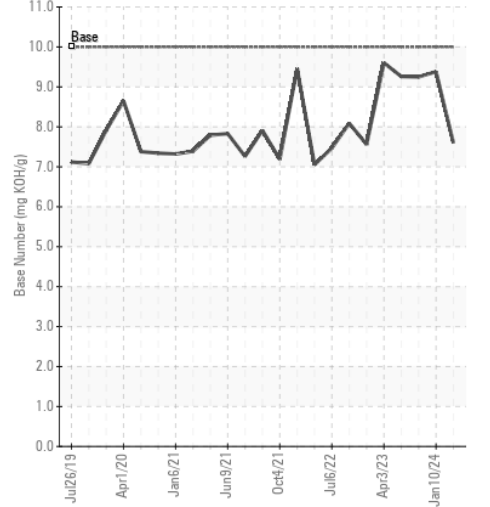
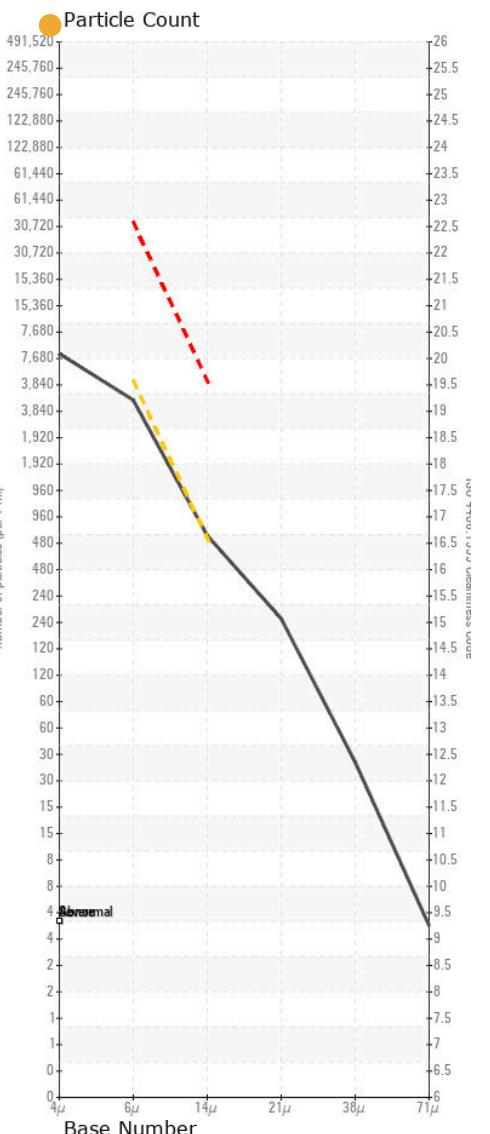
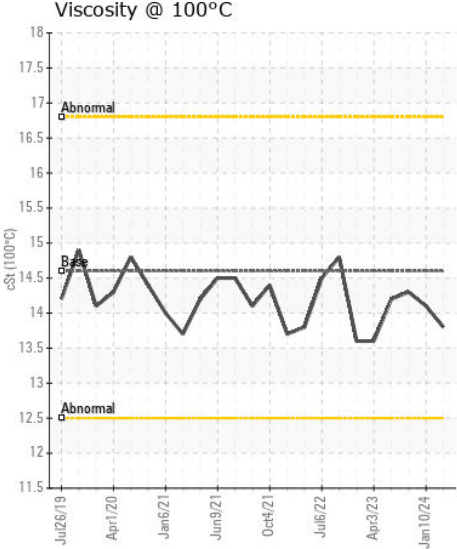
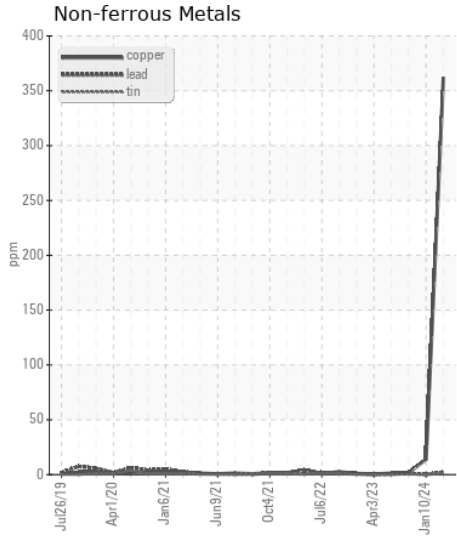
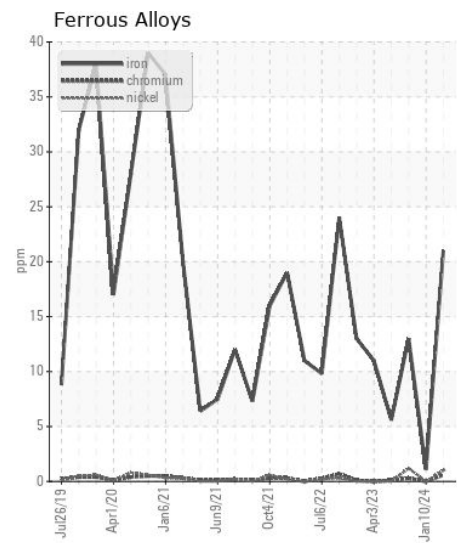
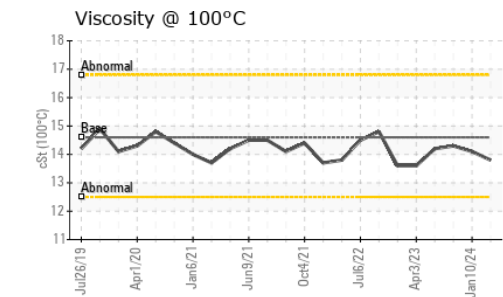
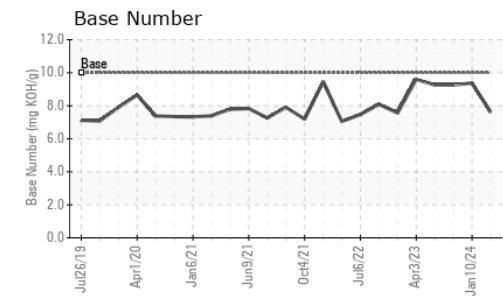
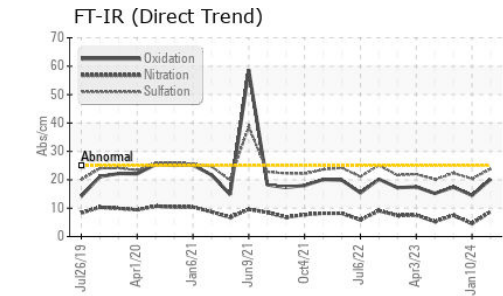
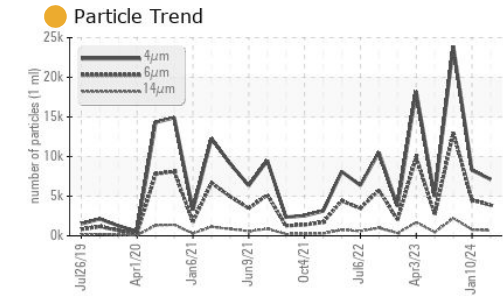
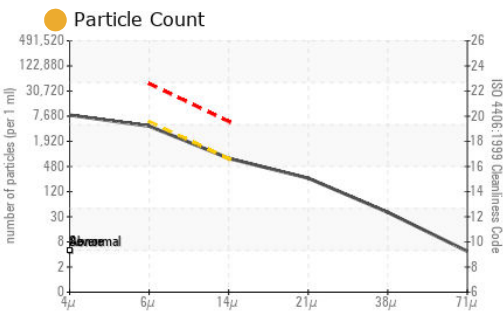
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	6	5	5
Potassium	ppm	ASTM D5185m	>20	2	0	3
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	0.1	0.6
Nitration	Abs/cm	*ASTM D7624	>20	8.8	4.6	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8	20.4	22.3
Particles >4µm		ASTM D7647		7116	8273	23907
Particles >6µm		ASTM D7647	>5000	3877	4507	▲ 13023
Particles >14µm		ASTM D7647	>640	660	767	▲ 2216
Particles >21µm		ASTM D7647	>160	222	258	▲ 747
Particles >38µm		ASTM D7647	>40	34	40	▲ 115
Particles >71µm		ASTM D7647	>10	4	4	▲ 12
Oil Cleanliness		ISO 4406 (c)	>19/16	19/17	19/17	▲ 21/18
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	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		100	40	18
Boron	ppm	ASTM D5185m		275	381	327
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		116	90	104
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		416	361	410
Calcium	ppm	ASTM D5185m		1607	1361	1454
Phosphorus	ppm	ASTM D5185m	760	1197	1002	1096
Zinc	ppm	ASTM D5185m	800	1385	1216	1366
Sulfur	ppm	ASTM D5185m	3000	3827	3588	3610
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	14.5	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	10	7.60	9.38	9.25
Visc @ 100°C	cSt	ASTM D445	14.6	13.8	14.1	14.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013790 **Received** : 16 Apr 2024
Lab Number : 06150602 **Tested** : 17 Apr 2024
Unique Number : 10980680 **Diagnosed** : 18 Apr 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: Glycol, PrtCount)
 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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