



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
PCS - PORTABLE CRUSHING SERVICES
Machine Id
CASE 1021F LD03 - PCS
Component
Diesel Engine
Fluid
CHEVRON DELO 400 SDE SAE 15W40 (32 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013766	KL0013095	KL0009610
Sample Date		Client Info		10 Apr 2024	03 Oct 2023	29 Jun 2023
Machine Age	hrs	Client Info		9272	8627	8173
Oil Age	hrs	Client Info		695	2589	2135
Filter Age	hrs	Client Info		695	2589	2135
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	4	6	9
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	0	1
Lead	ppm	ASTM D5185m	>40	1	3	2
Copper	ppm	ASTM D5185m	>330	2	3	3
Tin	ppm	ASTM D5185m	>15	<1	<1	<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

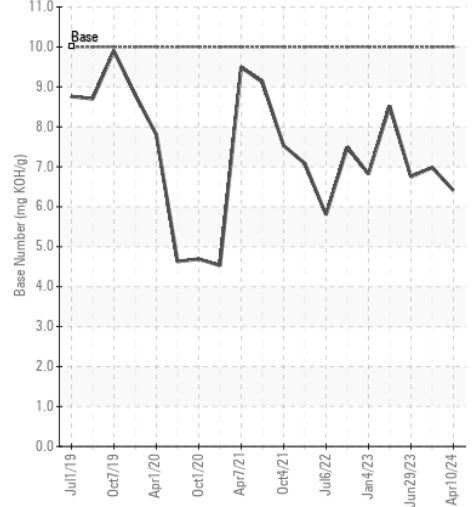
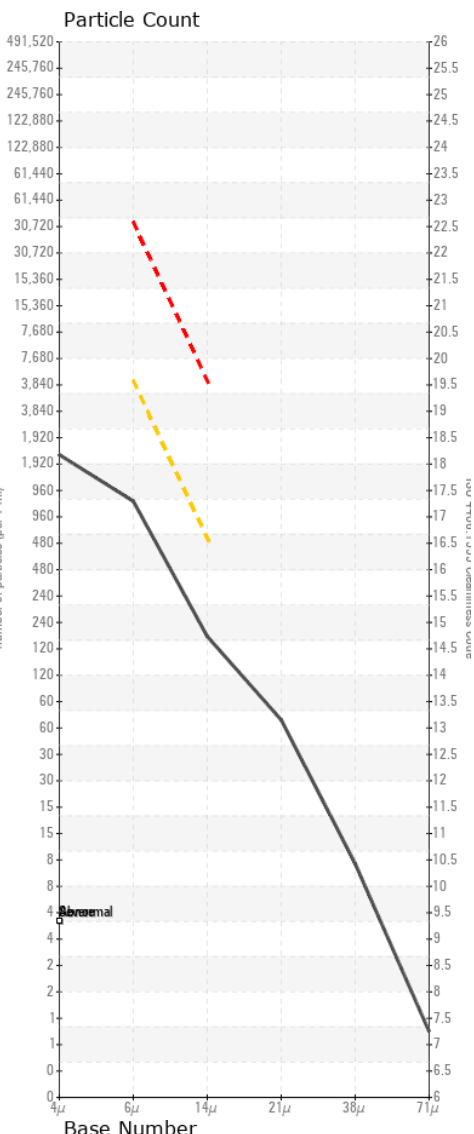
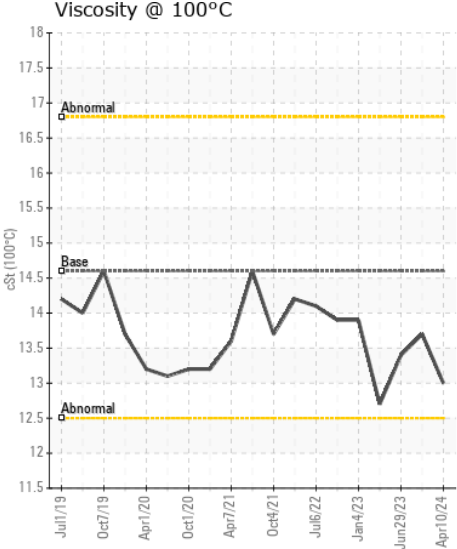
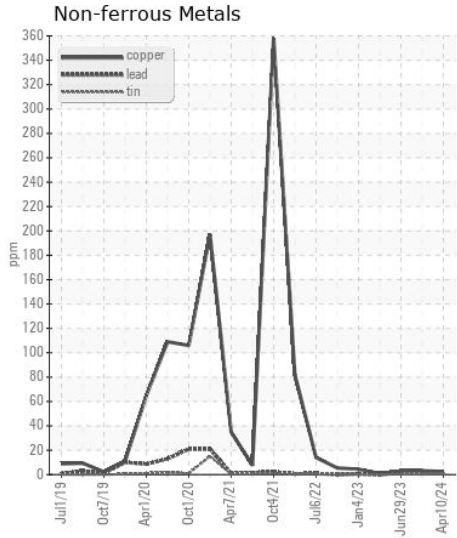
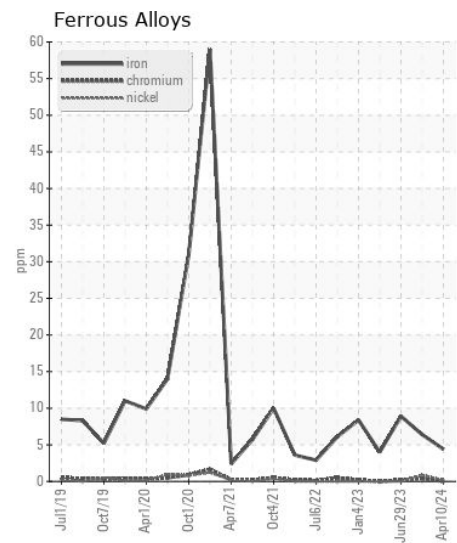
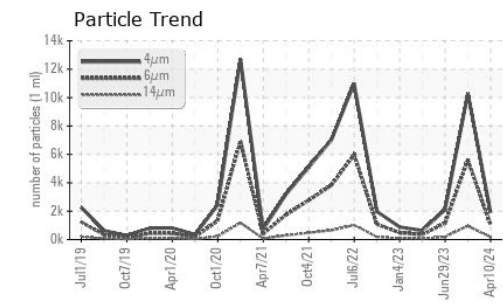
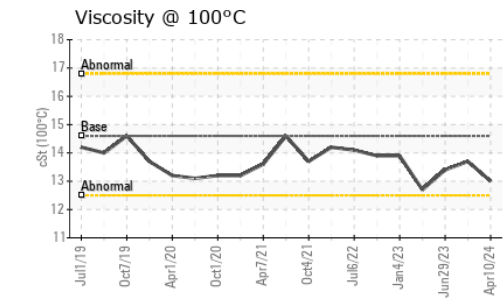
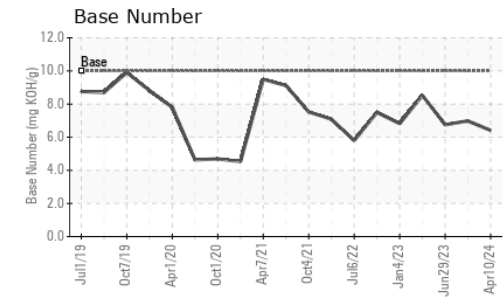
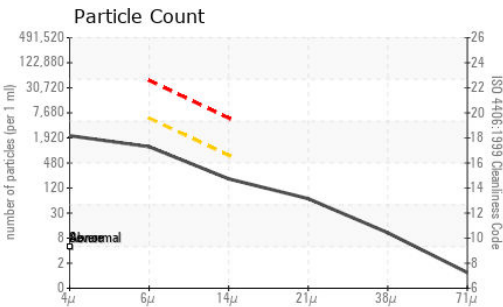
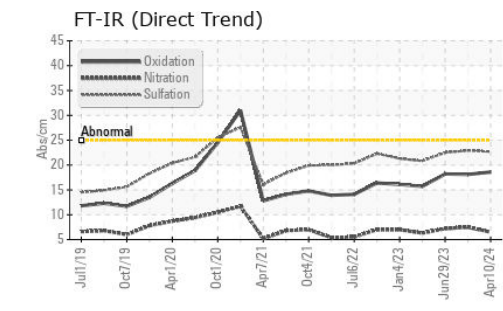
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	7	7	5
Potassium	ppm	ASTM D5185m	>20	2	3	2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.5	7.5	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	22.9	22.5
Particles >4µm		ASTM D7647		1896	10300	2105
Particles >6µm		ASTM D7647	>5000	1033	5611	1147
Particles >14µm		ASTM D7647	>640	176	955	195
Particles >21µm		ASTM D7647	>160	59	322	66
Particles >38µm		ASTM D7647	>40	9	50	10
Particles >71µm		ASTM D7647	>10	1	5	1
Oil Cleanliness		ISO 4406 (c)	>19/16	17/15	20/17	17/15
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		4	<1	1
Boron	ppm	ASTM D5185m		293	227	310
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		65	98	97
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		403	391	361
Calcium	ppm	ASTM D5185m		1663	1427	1472
Phosphorus	ppm	ASTM D5185m	760	975	1029	994
Zinc	ppm	ASTM D5185m	800	1093	1271	1176
Sulfur	ppm	ASTM D5185m	3000	6182	3739	4039
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	18.1	18.2
Base Number (BN)	mg KOH/g	ASTM D2896	10	6.41	6.98	6.75
Visc @ 100°C	cSt	ASTM D445	14.6	13.0	13.7	13.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013766 **Received** : 16 Apr 2024
Lab Number : 06150588 **Tested** : 17 Apr 2024
Unique Number : 10980666 **Diagnosed** : 18 Apr 2024 - Sean Felton
Test Package : MOB 2 (Additional Tests: 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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