



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
PCS - PORTABLE CRUSHING SERVICES

Machine Id
KOMATSU TH06 - PCS

Component
Diesel Engine

Fluid
CHEVRON DELO 400 SDE SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013785	KL0014080	KL0013015
Sample Date		Client Info		10 Apr 2024	10 Jan 2024	03 Oct 2023
Machine Age	hrs	Client Info		6841	6773	6524
Oil Age	hrs	Client Info		118	50	1039
Filter Age	hrs	Client Info		118	50	1039
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Not Chngd	Changed	Not Chngd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	12	4	65
Chromium	ppm	ASTM D5185m	>20	<1	0	2
Nickel	ppm	ASTM D5185m	>4	<1	0	2
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	3	0
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	3	2	9
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

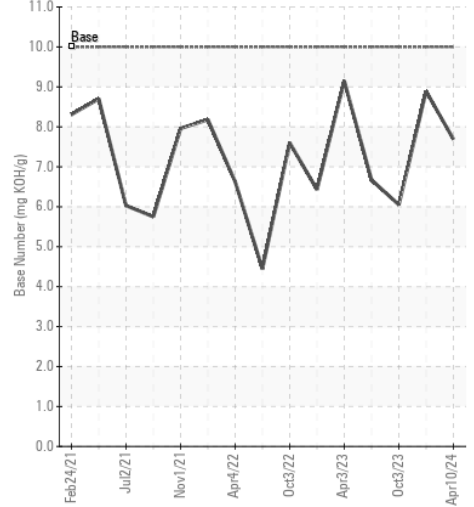
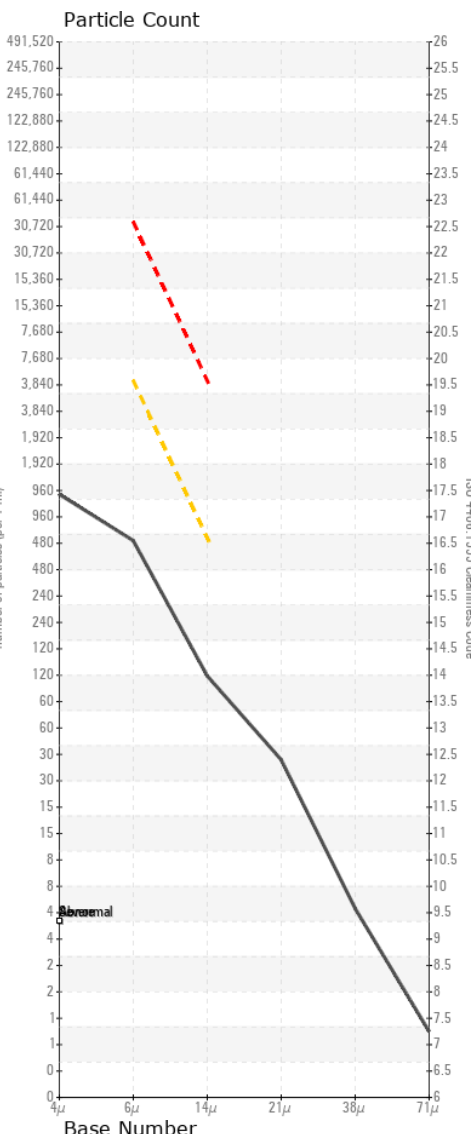
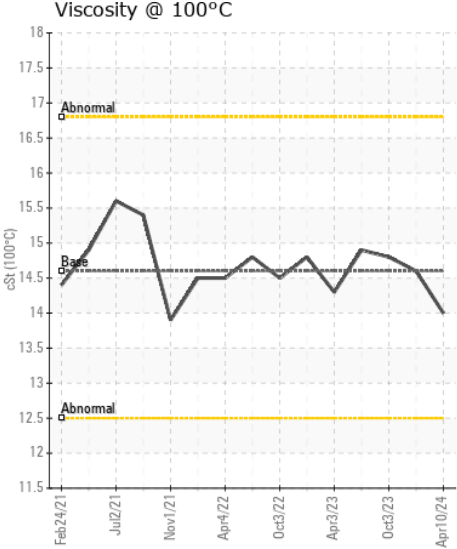
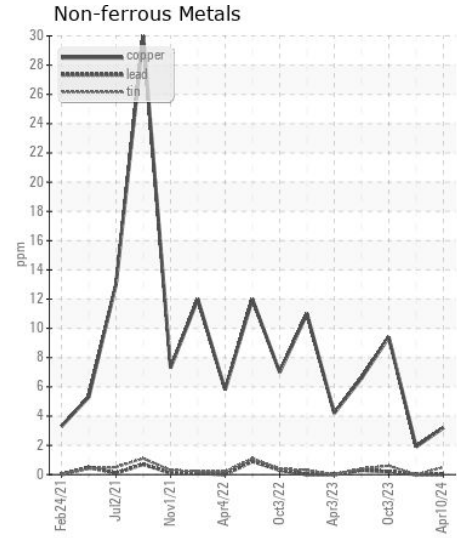
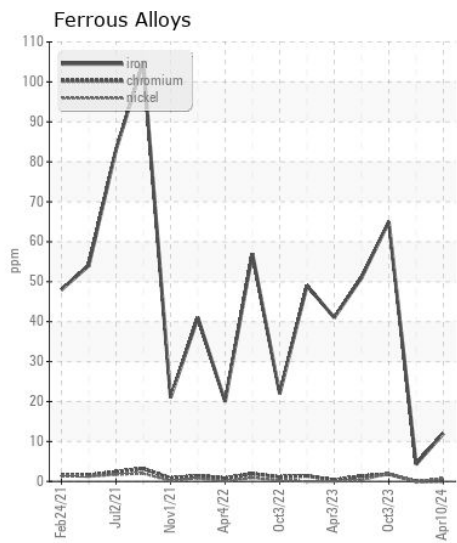
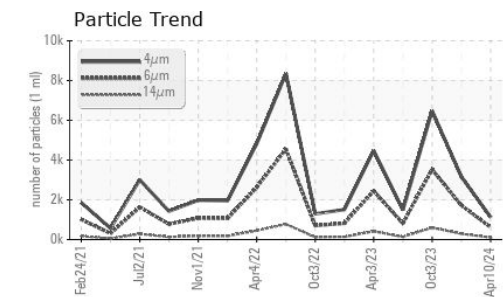
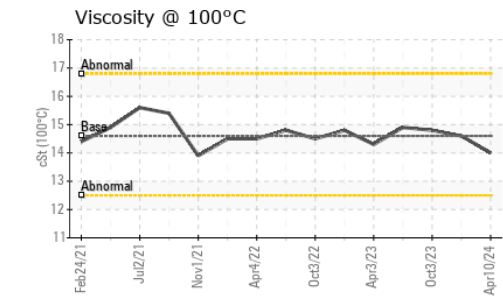
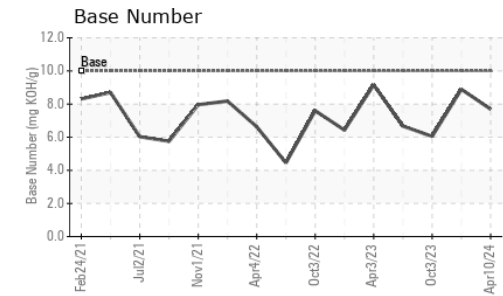
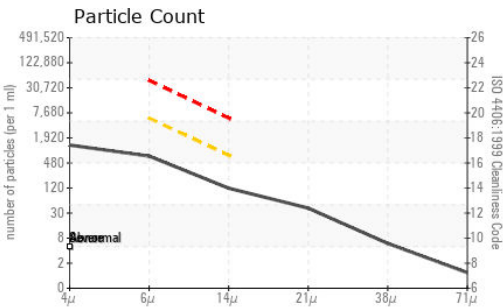
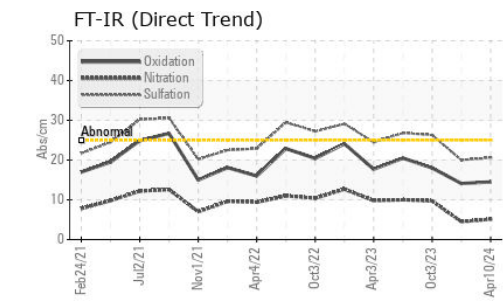
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>25	5	6	10
Potassium	ppm	ASTM D5185m	>20	4	1	19
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	0.5	0.4	2.8
Nitration	Abs/cm	*ASTM D7624	>20	5.1	4.5	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	20.0	26.3
Particles >4µm		ASTM D7647		1131	3158	6472
Particles >6µm		ASTM D7647	>5000	616	1720	3526
Particles >14µm		ASTM D7647	>640	105	293	600
Particles >21µm		ASTM D7647	>160	35	99	202
Particles >38µm		ASTM D7647	>40	5	15	31
Particles >71µm		ASTM D7647	>10	1	2	3
Oil Cleanliness		ISO 4406 (c)	>19/16	16/14	18/15	19/16
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		5	0	14
Boron	ppm	ASTM D5185m		460	395	74
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		86	82	97
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		383	357	436
Calcium	ppm	ASTM D5185m		1567	1393	1547
Phosphorus	ppm	ASTM D5185m	760	1077	973	982
Zinc	ppm	ASTM D5185m	800	1262	1187	1252
Sulfur	ppm	ASTM D5185m	3000	4712	3633	3874
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	14.1	18.0
Base Number (BN)	mg KOH/g	ASTM D2896	10	7.69	8.89	6.05
Visc @ 100°C	cSt	ASTM D445	14.6	14.0	14.6	14.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013785
Lab Number : 06150591
Unique Number : 10980669
Test Package : MOB 2 (Additional Tests: PrtCount)

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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)