



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
PCS - PORTABLE CRUSHING SERVICES

Machine Id
KOMATSU TH05 - 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		KL0013783	KL0014076	KL0013013
Sample Date		Client Info		10 Apr 2024	10 Jan 2024	03 Oct 2023
Machine Age	hrs	Client Info		5762	5276	5002
Oil Age	hrs	Client Info		536	50	622
Filter Age	hrs	Client Info		536	50	622
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	38	2	23
Chromium	ppm	ASTM D5185m	>20	2	0	1
Nickel	ppm	ASTM D5185m	>4	1	0	1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	2	0
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	7	2	3
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

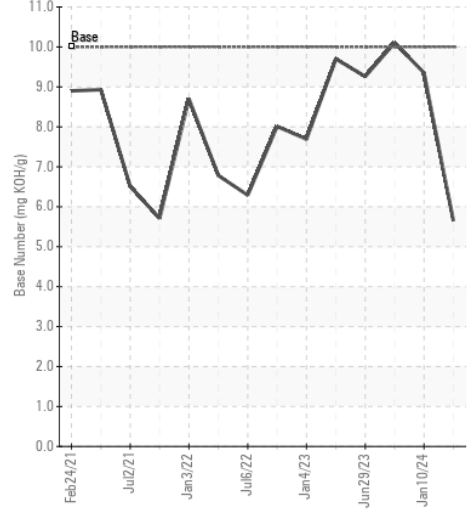
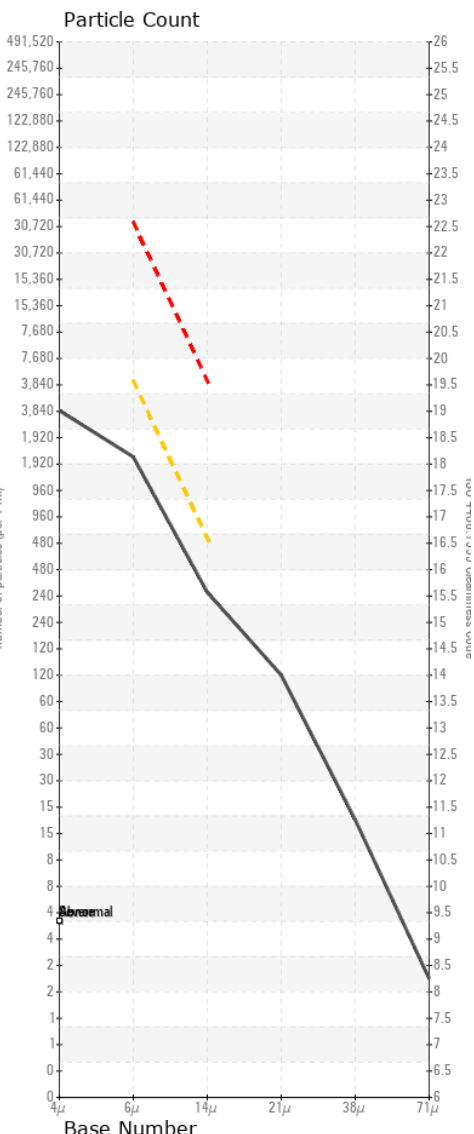
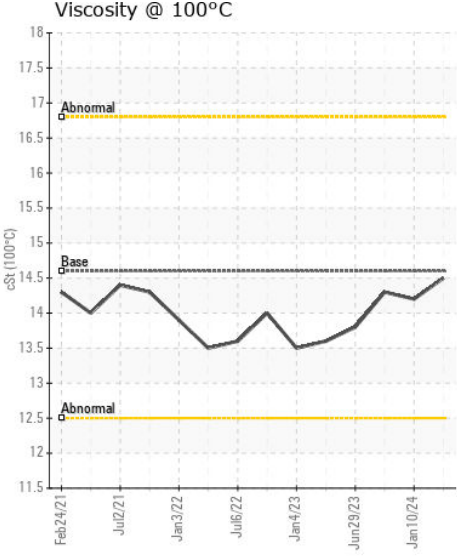
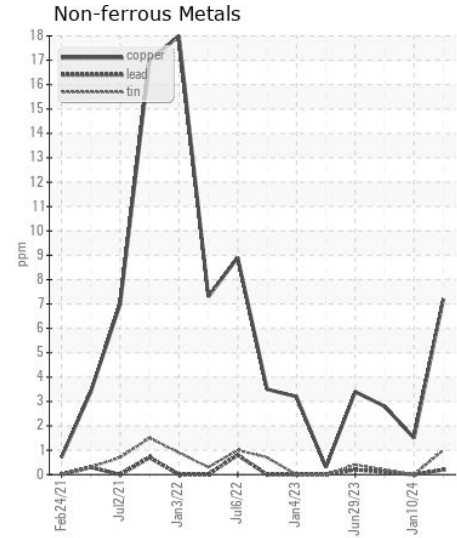
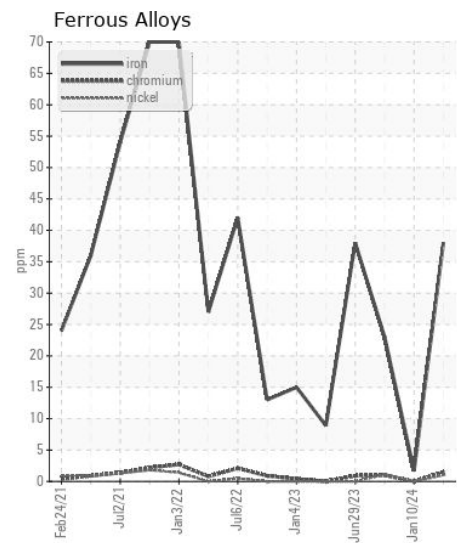
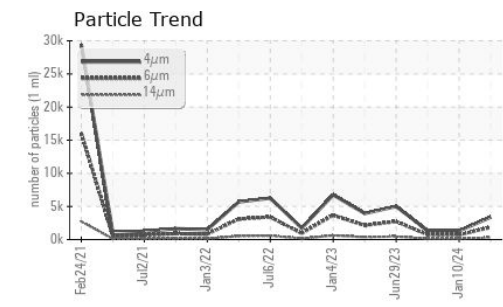
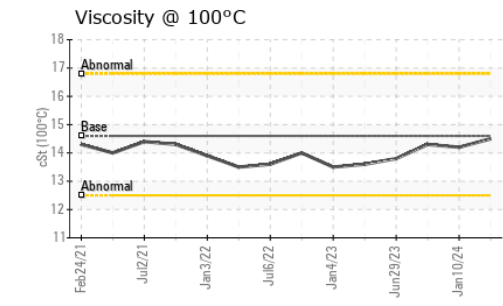
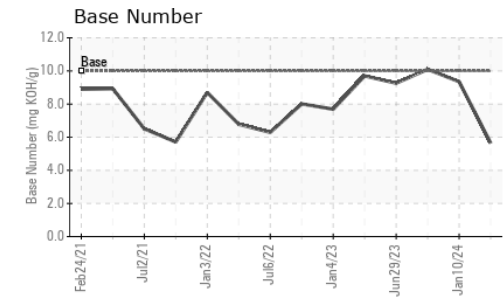
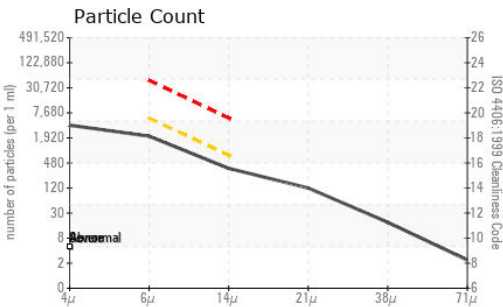
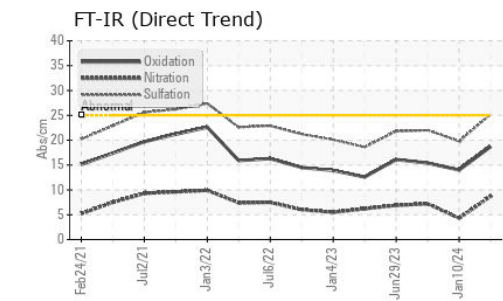
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	7	4	6
Potassium	ppm	ASTM D5185m	>20	16	0	5
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	1.7	0.3	0.9
Nitration	Abs/cm	*ASTM D7624	>20	8.7	4.3	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.2	19.8	22.0
Particles >4µm		ASTM D7647		3384	1305	1340
Particles >6µm		ASTM D7647	>5000	1844	711	730
Particles >14µm		ASTM D7647	>640	314	121	124
Particles >21µm		ASTM D7647	>160	106	41	42
Particles >38µm		ASTM D7647	>40	16	6	6
Particles >71µm		ASTM D7647	>10	2	1	1
Oil Cleanliness		ISO 4406 (c)	>19/16	18/15	17/14	17/14
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		14	0	<1
Boron	ppm	ASTM D5185m		263	400	313
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		100	84	101
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		397	360	390
Calcium	ppm	ASTM D5185m		1642	1416	1448
Phosphorus	ppm	ASTM D5185m	760	1110	999	1051
Zinc	ppm	ASTM D5185m	800	1305	1201	1327
Sulfur	ppm	ASTM D5185m	3000	3949	3751	3421
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	14.0	15.4
Base Number (BN)	mg KOH/g	ASTM D2896	10	5.65	9.35	10.10
Visc @ 100°C	cSt	ASTM D445	14.6	14.5	14.2	14.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013783
Lab Number : 06150597
Unique Number : 10980675
Test Package : MOB 2 (Additional Tests: PrtCount)

PIKES PEAK PERFORMANCE PRODUCTS
 7888 BULLET RD
 PEYTON, CO
 US 80831

Received : 16 Apr 2024
Tested : 17 Apr 2024
Diagnosed : 18 Apr 2024 - Sean Felton

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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