



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
PCS - PORTABLE CRUSHING SERVICES

Machine Id
KOMATSU LD17 - PCS

Component
Diesel Engine

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

RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013801	KL0014083	KL0013074
Sample Date		Client Info		10 Apr 2024	10 Jan 2024	03 Oct 2023
Machine Age	hrs	Client Info		21115	20982	20847
Oil Age	hrs	Client Info		183	50	408
Filter Age	hrs	Client Info		183	50	408
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Not Chngd	Changed	Not Chngd
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	6	0	<1
Chromium	ppm	ASTM D5185m	>20	<1	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	3	2	0
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	<1	1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

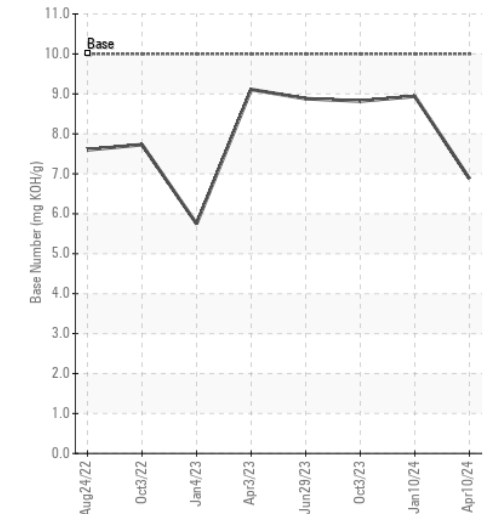
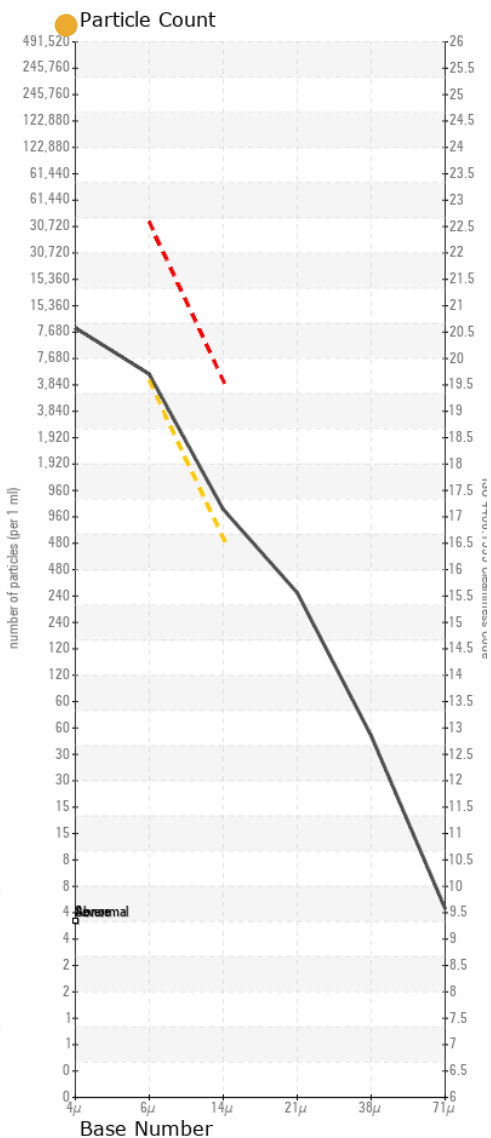
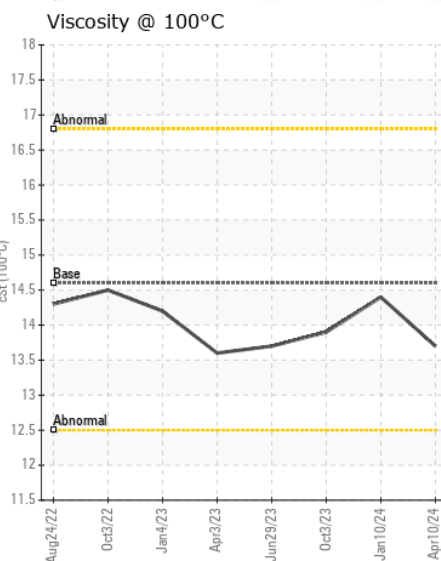
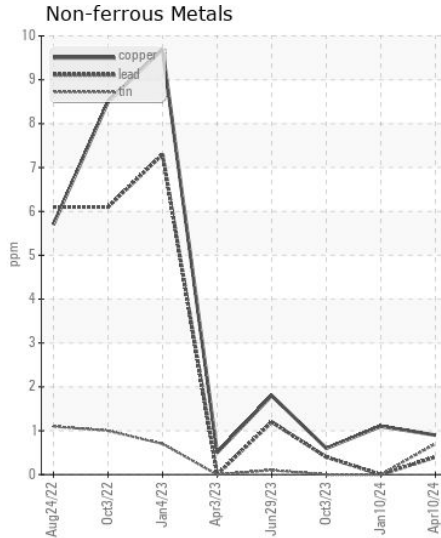
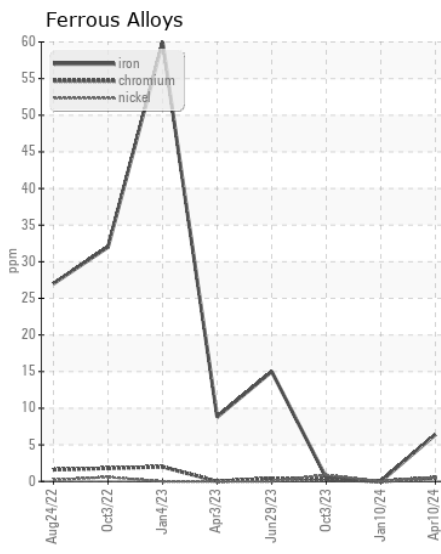
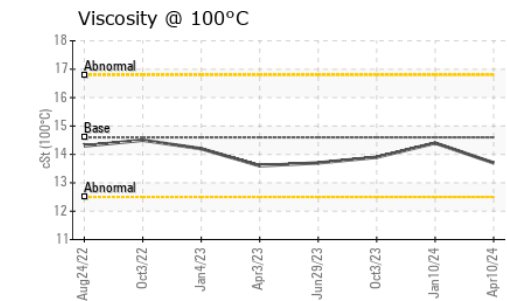
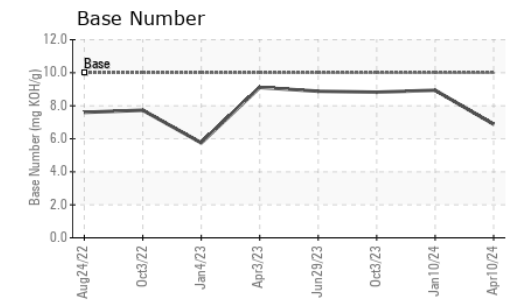
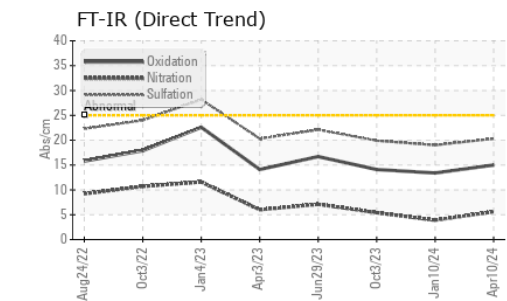
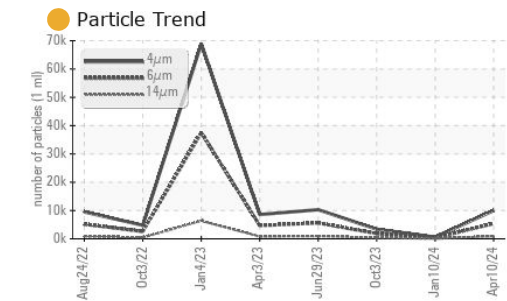
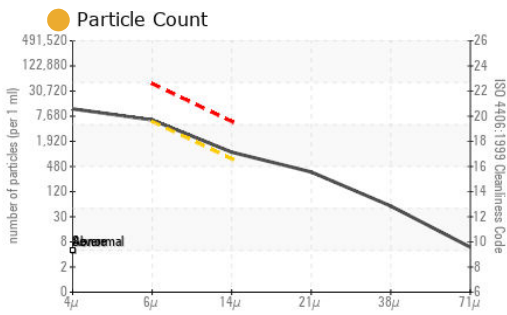
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	6	6	5
Potassium	ppm	ASTM D5185m	>20	2	0	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	0.2	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.6	3.9	5.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	19.0	19.9
Particles >4µm		ASTM D7647		9996	600	3384
Particles >6µm		ASTM D7647	>5000	5445	327	1844
Particles >14µm		ASTM D7647	>640	927	56	314
Particles >21µm		ASTM D7647	>160	312	19	106
Particles >38µm		ASTM D7647	>40	48	3	16
Particles >71µm		ASTM D7647	>10	5	0	2
Oil Cleanliness		ISO 4406 (c)	>19/16	20/17	16/13	18/15
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		2	0	0
Boron	ppm	ASTM D5185m		478	428	418
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		95	84	96
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		383	359	374
Calcium	ppm	ASTM D5185m		1522	1371	1383
Phosphorus	ppm	ASTM D5185m	760	1146	997	1069
Zinc	ppm	ASTM D5185m	800	1287	1203	1284
Sulfur	ppm	ASTM D5185m	3000	4180	3554	3540
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	13.4	14.1
Base Number (BN)	mg KOH/g	ASTM D2896	10	6.88	8.94	8.82
Visc @ 100°C	cSt	ASTM D445	14.6	13.7	14.4	13.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013801 **Received** : 16 Apr 2024
Lab Number : 06150600 **Tested** : 17 Apr 2024
Unique Number : 10980678 **Diagnosed** : 18 Apr 2024 - Sean Felton
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)