



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
DE Samples - CAT LAB
Machine Id
KOMATSU HAUL TRUCK 6526 (S/N 10125)
Component
Diesel Engine
Fluid
TULCO LUBSOIL DIESEL TURBO CJ4 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO10003709	TO10003121	TO10003043
Sample Date		Client Info		02 Jul 2024	24 Feb 2024	07 Dec 2023
Machine Age	hrs	Client Info		31653	31347	31166
Oil Age	hrs	Client Info		306	181	447
Filter Age	hrs	Client Info		306	181	447
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	6	8	2
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>4	0	1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	2	<1
Lead	ppm	ASTM D5185m	>40	9	<1	2
Copper	ppm	ASTM D5185m	>330	1	▲ 354	2
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

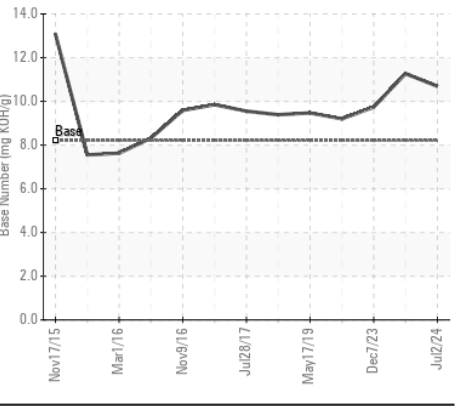
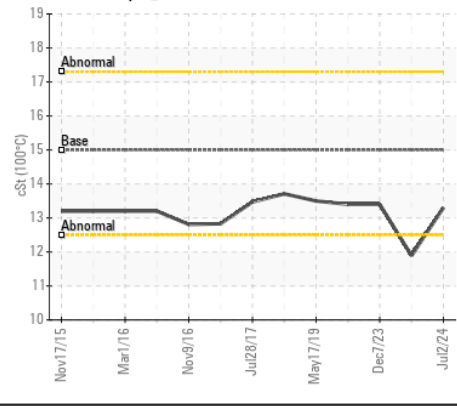
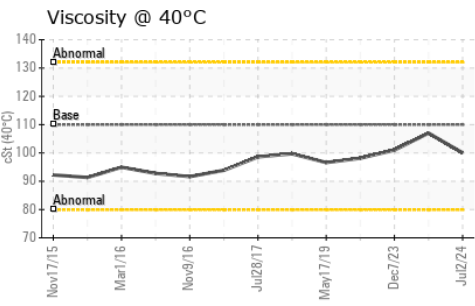
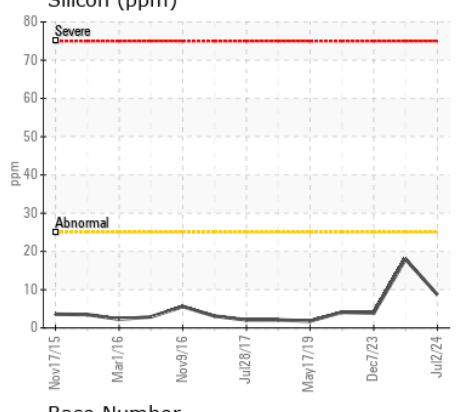
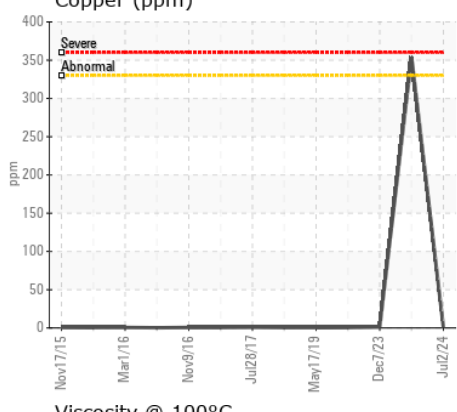
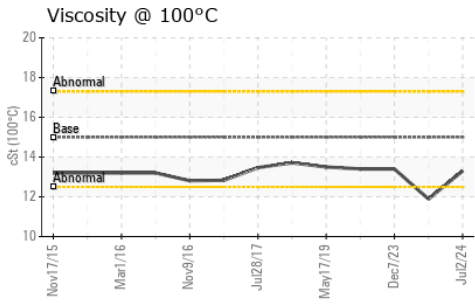
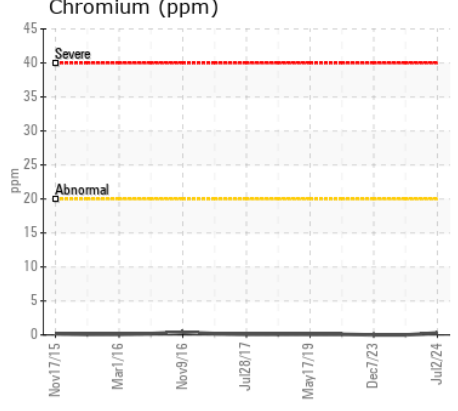
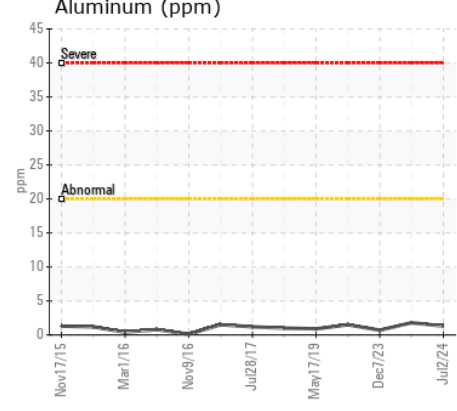
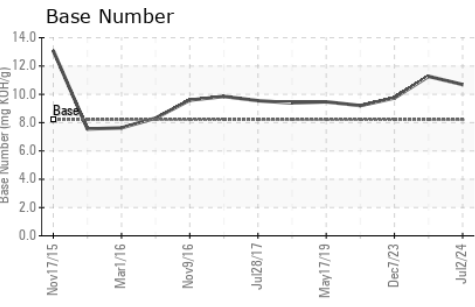
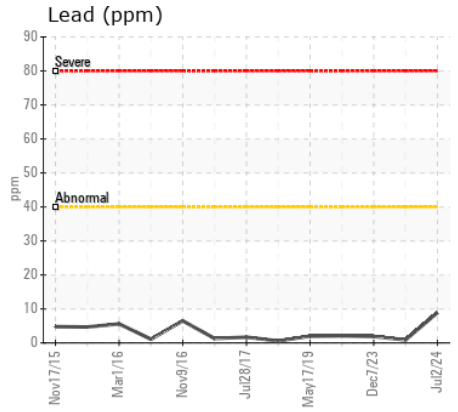
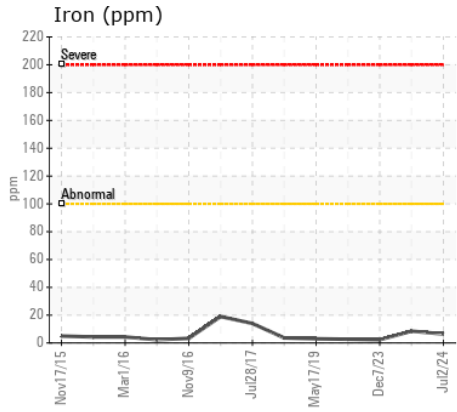
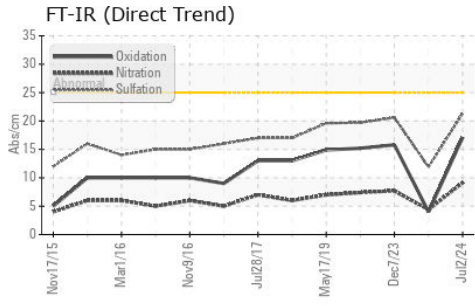
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	9	18	4
Potassium	ppm	ASTM D5185m	>20	2	<1	0
Fuel		WC Method	>5	<1.0	0.7	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	0	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.1	4.4	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	11.9	20.6
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		3	<1	4
Boron	ppm	ASTM D5185m	1	10	0	17
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	40	70	1	61
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	935	1073	37	916
Calcium	ppm	ASTM D5185m	1234	1239	3345	1143
Phosphorus	ppm	ASTM D5185m	1089	1149	911	1084
Zinc	ppm	ASTM D5185m	1090	1426	1128	1302
Sulfur	ppm	ASTM D5185m	3700	3539	4064	3323
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	4.0	15.8
Base Number (BN)	mg KOH/g	ASTM D2896	8.21	10.69	11.27	9.74
Visc @ 40°C	cSt	ASTM D445	110	100	107	101
Visc @ 100°C	cSt	ASTM D445	15	13.3	● 11.89	13.4
Viscosity Index (VI)	Scale	ASTM D2270	143	131	99	131



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10003709 **Received** : 08 Jul 2024
Lab Number : 06230890 **Tested** : 10 Jul 2024
Unique Number : 11114383 **Diagnosed** : 10 Jul 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: KV40, VI)

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Certificate L2367
 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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