WEAR CONTAMINATION **FLUID CONDITION**

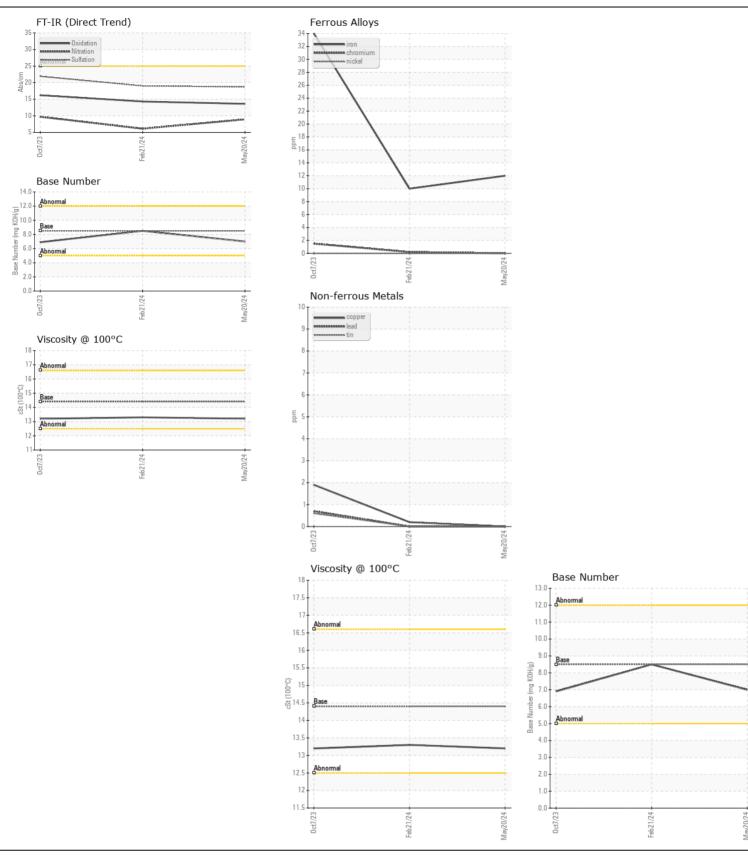
NORMAL NORMAL NORMAL

Machine Id

KOMATSU TH-35

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		CL0005469	CL0005187	CL0004773
	Sample Date		Client Info		20 May 2024	21 Feb 2024	07 Oct 202
	Machine Age	hrs	Client Info		4080	3790	3540
	Oil Age	hrs	Client Info		290	250	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	12	10	34
	Chromium	ppm	ASTM D5185m	>20	0	<1	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		3	2	4
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		0	<1	2
	Tin	ppm	ASTM D5185m		0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	\25	4	4	6
CONTAMINATION	Potassium	ppm	ASTM D5185m		<1	<1	3
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	0.4	1.5
	Nitration	Abs/cm	*ASTM D7624		8.9	6.1	9.7
	Sulfation	Abs/.1mm	*ASTM D7415		18.7	19.0	21.9
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m	< 15Q	2	1	2
LOID CONDITION	Boron	ppm	ASTM D5185m		77	100	34
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		86	60	72
	Manganese	ppm	ASTM D5185m	100	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	57	366	390
	Calcium	ppm	ASTM D5185m		2186	1783	1678
	Phosphorus	ppm	ASTM D5185m		1070	1053	995
	Zinc	ppm	ASTM D5185m		1232	1229	1236
	Sulfur	ppm	ASTM D5185m		4195	3386	3123
	Oxidation	Abs/.1mm	*ASTM D7414		13.6	14.3	16.2
	Base Number (BN)				7.0	8.5	6.9







Sample No.

Laboratory

: CL0005469 Lab Number : 06191739

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Tested Unique Number : 11048491 Test Package : CONST (Additional Tests: TBN)

Diagnosed

Received

: 24 May 2024

: 29 May 2024 : 29 May 2024 - Wes Davis

PEDULLA 146 MCLELLAND MOORESVILLE, NC US 28115 Contact: LARRY

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)

T: F: