WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

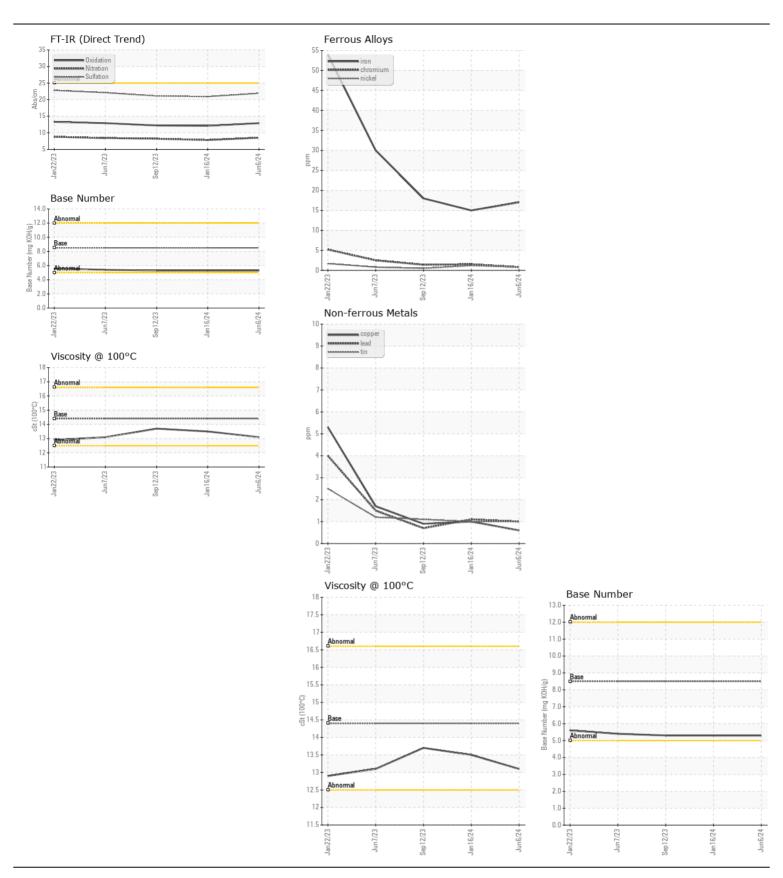
Machine Id

KENWORTH T880 T-889 (S/N 1XKZD40X7PJ225508)

Component

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	OOW	Client Info	LIIIIUAUII	WC0934761	WC0865128	WC0865168
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		06 Jun 2024	16 Jan 2024	12 Sep 2023
	Machine Age	mls	Client Info		150986	126413	102091
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed	0	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	17	15	18
WEAIT	Chromium	ppm	ASTM D5185m		<1	2	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	<1	<1	<1
	Aluminum	ppm	ASTM D5185m		8	8	10
	Lead	ppm	ASTM D5185m		1	1	<1
	Copper	ppm	ASTM D5185m		<1	1	<1
	Tin	ppm	ASTM D5185m		1	1	1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	6	7
CONTAMINATION	Potassium	ppm	ASTM D5185m		18	17	22
Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Fuel	pp	WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	8.5	7.8	8.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	20.9	21.1
	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	Sodium	ppm	ASTM D5185m	>158	2	1	5
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m	250	2	1	<1
	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	2	3	2
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		56	47	50
	Calcium	ppm	ASTM D5185m		2423	2213	2360
	Phosphorus	ppm	ASTM D5185m		959	923	733
	Zinc	ppm	ASTM D5185m		1145	1080	1067
	Sulfur	ppm	ASTM D5185m		4397	3657	3407
	Oxidation	Abs/.1mm	*ASTM D7414		12.9	12.1	12.2
	Base Number (BN)				5.3	5.3	5.3
	Visc @ 100°C	cSt	ASTM D445	14.4	13.1	13.5	13.7







Certificate L2367

Laboratory Sample No.

Lab Number : 06217488

Unique Number : 11090352 Test Package : CONST (Additional Tests: TBN)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0934761 Received : 21 Jun 2024

Tested : 24 Jun 2024 Diagnosed : 24 Jun 2024 - Wes Davis

EAI EQUIPMENT A DIIV OF PLEASANT CONSTRUCTION INC 24024 FREDERICK ROAD CLARKSBURG, MD

US 20871 Contact: Service Manager

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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