WEAR CONTAMINATION FLUID CONDITION

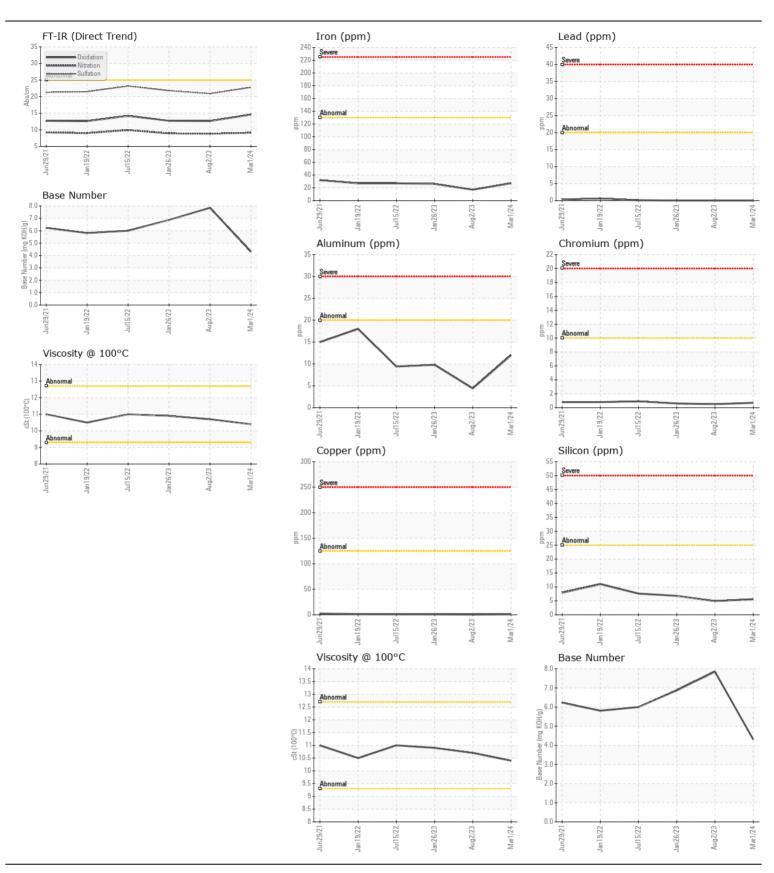
NORMAL NORMAL

Current
Machine Id

IC 09-20 Component

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0849404	WC0693104	WC069308
Resample at the next service interval to monitor.	Sample Date		Client Info		01 Mar 2024	02 Aug 2023	26 Jan 202
	Machine Age	mls	Client Info		48362	42136	36447
	Oil Age	mls	Client Info		6226	5689	6056
	Filter Age	mls	Client Info		6226	5689	6056
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>130	27	17	26
	Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	12	4	10
	Lead	ppm	ASTM D5185m	>20	0	0	0
	Copper	ppm	ASTM D5185m	>125	1	<1	1
	Tin	ppm	ASTM D5185m	>4	0	<1	0
	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	nnm	ASTM D5185m	. 25	6	5	7
CONTAMINATION	Potassium	ppm	ASTM D5185m		6 7	5 8	17
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0.5	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.8	8.9
	Sulfation	Abs/.1mm	*ASTM D7415		22.8	20.9	21.8
	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
THUR CONDITION	····		AOTH DE LOS				
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	2	<1
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		3	2	<1
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		2	6	1
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		17 2467	34 2397	14 2497
	Phosphorus	ppm	ASTM D5185m		1006	904	934
	Zinc	ppm	ASTM D5165III		1121	1092	1091
	Sulfur	ppm	ASTM D5185m		3644	4237	3500
	Oxidation	ppm Abs/.1mm	*ASTM D7414	>25	3644 14.6	12.6	12.7
	Base Number (BN)			220	4.31	7.85	6.87





Certificate L2367

Laboratory Sample No.

: WC0849404 Lab Number : 06151296 Unique Number: 10981374 Test Package : MOB 2

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

Diagnosed

: 16 Apr 2024 : 18 Apr 2024

: 18 Apr 2024 - Wes Davis

INDIANOLA COMMUNITY SCHOOL DISTRICT 1206 EAST ASHLAND, ATTN: JASON LOGAN

INDIANOLA, IA US 50125

> Contact: JASON LOGAN loganj@indianola.k12.ia.us T: (515)961-9592

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)

F: (515)961-9504