WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

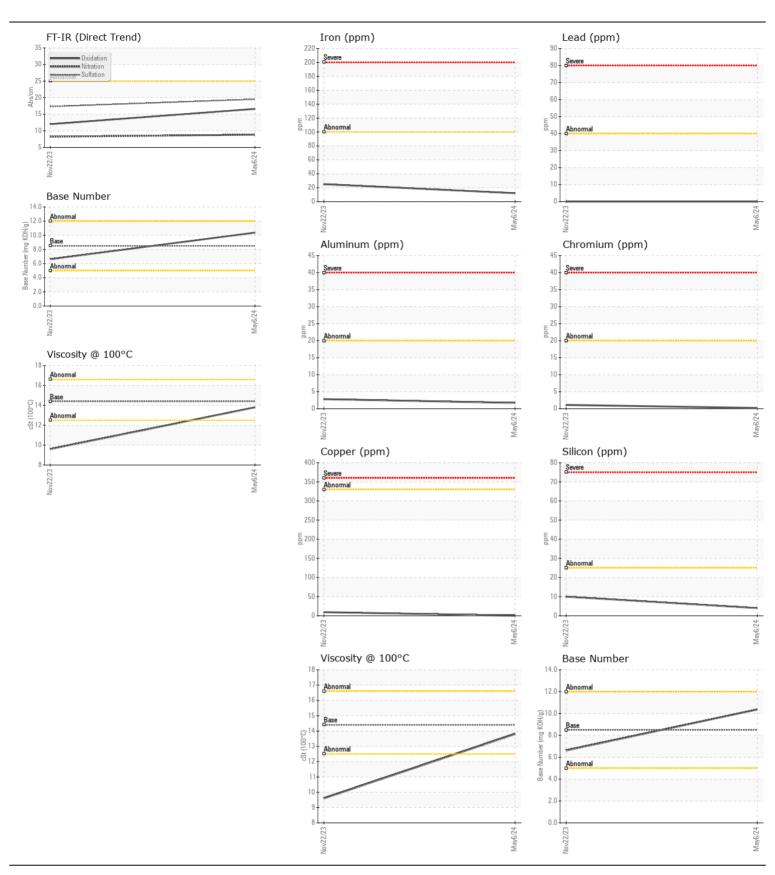
Machine Id

Mx-8
Component
Diesel Engine

Fluid

DIESEL	. ENGINE OIL	. SAE 15W40	(GAL)
--------	--------------	-------------	--------

	_						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the	Sample Number		Client Info		KFS0006013	KFS0004089	
component make and model with your next sample.	Sample Date		Client Info		06 May 2024	22 Nov 2023	
, , , , , , , , , , , , , , , , , , , ,	Machine Age	hrs	Client Info		870	434	
	Oil Age	hrs	Client Info		0	434	
	Filter Age	hrs	Client Info		0	434	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
VEAR	Iron	ppm	ASTM D5185m	>100	12	25	
	Chromium	ppm	ASTM D5185m	>20	<1	1	
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>4	0	0	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		2	3	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		<1	9	
	Tin	ppm	ASTM D5185m		<1	<1	
	Vanadium	ppm	ASTM D5185m	>10	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal			NONE	_		
<u></u>	reliow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	10	
	Potassium	ppm	ASTM D5185m	>20	9	116	
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	1.5	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	0.0	
	Soot %	%	*ASTM D7844	>3	0.3	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	8.8	8.2	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	17.3	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
LUID CONDITION	Codium	nnm	ACTM DE10Em	. 150		· · · · · · · · · · · · · · · · · · ·	
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m ASTM D5185m		2 5	3 55	
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm				0	
oil. The condition of the oil is suitable for further service.		ppm	ASTM D5185m		1		
	Molybdenum	ppm	ASTM D5185m	100	61	107	
	Manganese	ppm	ASTM D5185m	150	<1	2	
	Magnesium	ppm	ASTM D5185m		880	23	
	Calcium	ppm	ASTM D5185m		1203	2059	
	Phosphorus	ppm	ASTM D5185m		1106	428	
	Zinc	ppm	ASTM D5185m		1224	394	
	Sulfur	ppm	ASTM D5185m		3545	3134	
	Oxidation	Abs/.1mm	*ASTM D7414		16.6	12.0	
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	10.37	6.62	
	Visc @ 100°C	cSt	ASTM D445	14.4	13.8	9.6	





Certificate L2367

Laboratory Sample No.

: KFS0006013 Lab Number : 06177886 Unique Number : 11029212 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 May 2024 Tested : 14 May 2024

Diagnosed : 14 May 2024 - Wes Davis

HARNESS LLC 855 N JAMES CAMPBELL BLVD COLUMBIA, TN US 38401

Contact: BEN HARNESS ben@slectharness.com

T: (615)733-4480

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)

Report Id: HARCOLTN [WUSCAR] 06177886 (Generated: 05/14/2024 17:41:11) Rev: 1

Submitted By: BILL ENYART