WEAR CONTAMINATION **FLUID CONDITION**

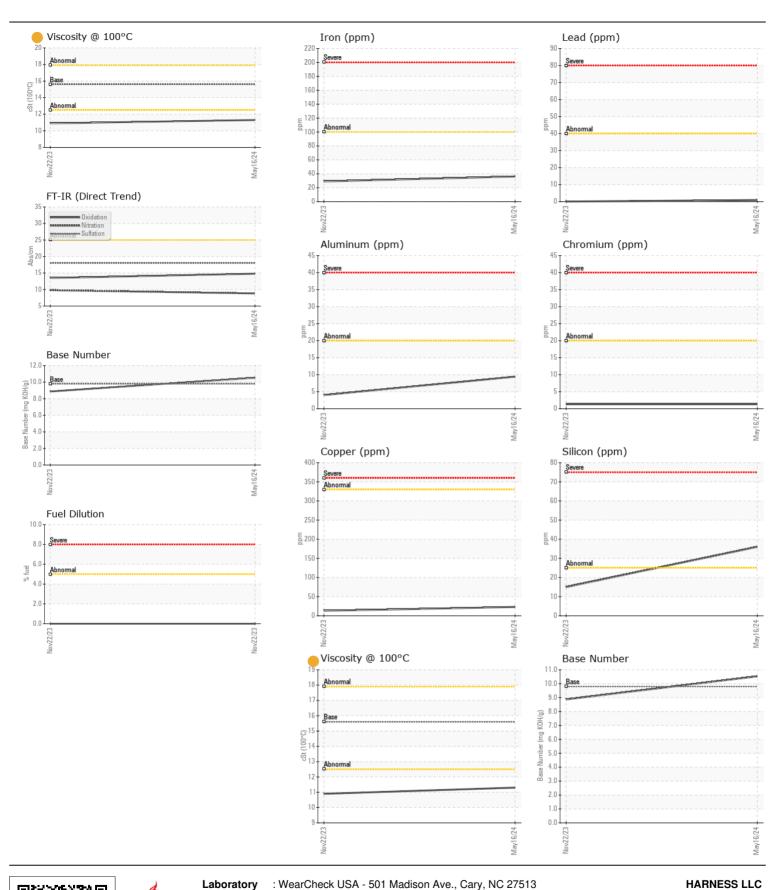
NORMAL NORMAL ATTENTION

MINI EXCAVATOR

Mx-7
Component
Diesel Engine

PETRO CANADA DURON HD 15W40 (-

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		KFS0006092	KFS0004090	
	Sample Date		Client Info		16 May 2024	22 Nov 2023	
	Machine Age	hrs	Client Info		910	492	
	Oil Age	hrs	Client Info		418	492	
	Filter Age	hrs	Client Info		418	492	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ATTENTION	NORMAL	
VEAR	Iron	nnm	ASTM D5185m	>100	36	29	
VEAN		ppm				1	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		1	·	
	Nickel	ppm	ASTM D5185m	>4	0	<1	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m		<1	0	
	Aluminum	ppm	ASTM D5185m		9	4	
	Lead	ppm	ASTM D5185m		<1	0	
	Copper	ppm	ASTM D5185m	>330	23	13	
	Tin	ppm	ASTM D5185m	>15	<1	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	> 25	36	15	
CONTAININATION	Potassium		ASTM D5185m		36	121	
There is no indication of any contamination in the oil.	Fuel	ppm %	ASTM D3163111	>5	<1.0	<1.0	
		70					
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	0.0	
	Soot %	%	*ASTM D7844		0.2	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	8.8	9.8	
	Sulfation	Abs/.1mm	*ASTM D7415		18.0	18.0	
	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	scalar	*Visual	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		4	5	
	Boron	ppm	ASTM D5185m		52	61	
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		3	0	
	Molybdenum	ppm	ASTM D5185m		10	126	
	Manganese	ppm	ASTM D5185m		5	2	
	Magnesium	ppm	ASTM D5185m		754	228	
	Calcium		ASTM D5185m		1356	2379	
		ppm	ASTM D5185m			548	
	Phosphorus	ppm			742 777		
	Zinc	ppm	ASTM D5185m		777	687	
	Sulfur	ppm	ASTM D5185m	0.5	3306	3570	
	Oxidation	Abs/.1mm	*ASTM D7414		14.8	13.5	
	Base Number (BN)				10.53	8.87	
	Visc @ 100°C	cSt	ASTM D445		11.3	10.9	





Laboratory Sample No.

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

: KFS0006092 Lab Number : 06189773

Received **Tested**

Unique Number : 11046525 Diagnosed Test Package: MOB 2 (Additional Tests: FuelDilution)

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.

: 29 May 2024 : 29 May 2024 - Sean Felton

: 23 May 2024

COLUMBIA, TN US 38401 Contact: BEN HARNESS

ben@slectharness.com T: (615)733-4480

855 N JAMES CAMPBELL BLVD

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)