

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Mini Excavator

137 Component

Diesel Engine

PETRO CANADA DURON HP 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		KFS0006001	KFS0002924	KFS0001534
	Sample Date		Client Info		18 Apr 2024	17 Mar 2023	20 Sep 2022
	Machine Age	hrs	Client Info		1960	1296	887
	Oil Age	hrs	Client Info		664	400	0
	Filter Age	hrs	Client Info		664	400	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	14	15	8
	Chromium	ppm	ASTM D5185m	>20	1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	4	6	2
	Lead	ppm	ASTM D5185m	>40	<1	0	0
	Copper	ppm	ASTM D5185m	>330	1	1	2
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	12	4
	Potassium	ppm	ASTM D5185m	>20	1	3	11
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.4	7.4	7.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	18.4	20.0
	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		3	2	0
	Boron	ppm	ASTM D5185m		<1	3	10
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		59	53	62
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		981	874	801
	Calcium	ppm	ASTM D5185m		1096	1140	1180
	Phosphorus	ppm	ASTM D5185m		1170	973	930
	Zinc	ppm	ASTM D5185m		1300	1191	1130
	Sulfur	ppm	ASTM D5185m		3866	3498	3157
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	14.5	15.7
	Base Number (BN)				9.95	10.86	10.1
		- 01		45.0		40.4	10.0

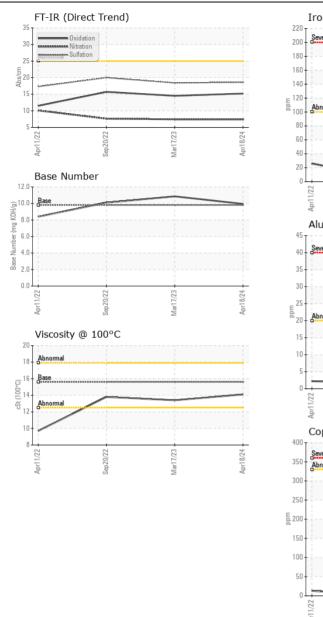
Visc @ 100°C cSt

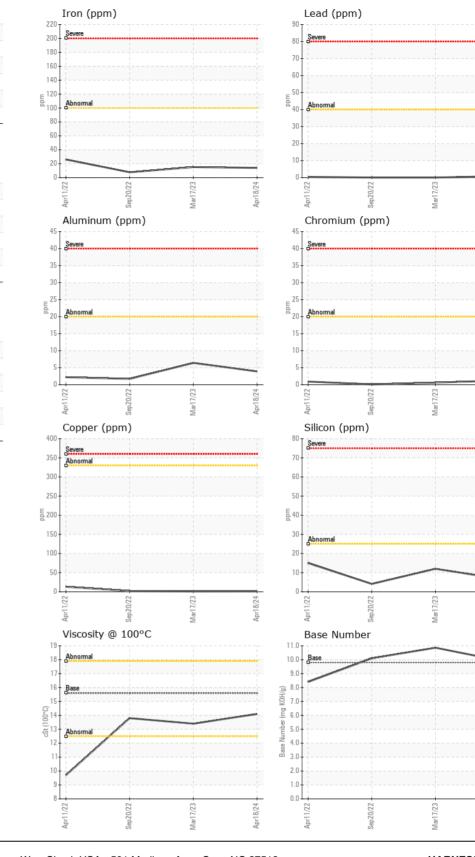
ASTM D445 15.6

13.8

13.4

14.1





HARNESS LLC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 855 N JAMES CAMPBELL BLVD : KFS0006001 : 25 Apr 2024 Lab Number : 06160586 COLUMBIA, TN Tested : 26 Apr 2024 Unique Number : 10996009 : 26 Apr 2024 - Wes Davis US 38401 Diagnosed Test Package : MOB 2 Contact: BEN HARNESS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. ben@slectharness.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (615)733-4480 F:

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

Submitted By: BILL ENYART Page 2 of 2

Apr18/24