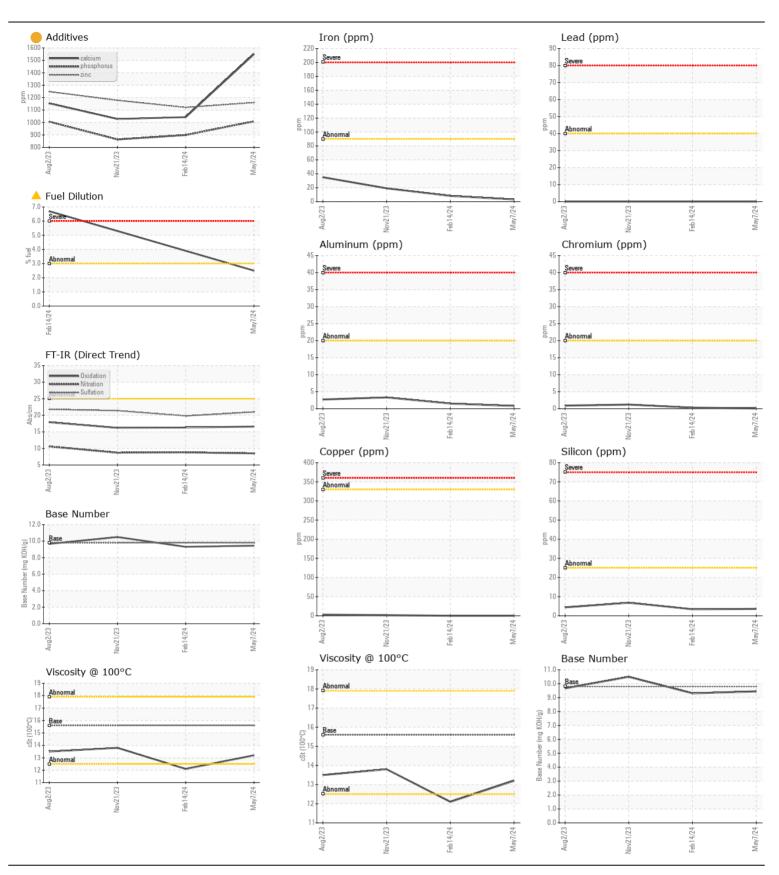
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL MARGINAL ATTENTION

Machine Id

DZ-8
Component
Diesel Engine

PETRO CANADA DURON HP 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.	Sample Number		Client Info	Little	KFS0003902	KFS0004052	KFS0002900
	Sample Date		Client Info		07 May 2024	14 Feb 2024	21 Nov 2023
	Machine Age	hrs	Client Info		6880	6632	6085
	Oil Age	hrs	Client Info		0	0	6085
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Changed	Changed
	Filter Changed		Client Info		Not Changd	Changed	Changed
	Sample Status				ATTENTION	SEVERE	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>90	3	8	19
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	1
	Nickel	ppm	ASTM D5185m	>2	0	0	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		<1	2	3
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		0	0	2
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	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	ppm	ASTM D5185m		4	3	7
Light fuel dilution occurring. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185m		1	0	1
	Fuel	%	ASTM D3524		2.5	▲ 6.7	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	21	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.6	0.7	0.9
	Nitration	Abs/cm		>20	8.5	8.8	8.7
	Sulfation Silt	Abs/.1mm	*ASTM D7415		21.0	19.8	21.4 NONE
	Debris	scalar scalar	*Visual *Visual	NONE	NONE 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			>0.2	NEG	NEG	NEG
ELUID CONDITION	Sodium	nnm	ACTM DE10E~		2	1	
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m ASTM D5185m		3 42	1 2	<1
Additive levels indicate the addition of a different brand, or type of oil.	Barium	ppm	ASTM D5185m		1	0	0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m		37	51	59
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		447	809	892
	Calcium	ppm	ASTM D5185m		1550	1043	1028
	Phosphorus	ppm	ASTM D5185m		1009	899	863
	Zinc	ppm	ASTM D5185m		1160	1121	1178
	Sulfur	ppm	ASTM D5185m		3497	3074	3087
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	16.3	16.2
	Base Number (BN)	mg KOH/g			9.45	9.31	10.49
	Visc @ 100°C	cSt	ASTM D445	15.6	13.2	<u>▲</u> 12.1	13.8





Certificate L2367

Laboratory Sample No.

: KFS0003902 Lab Number : 06177884

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

Received **Tested** Unique Number : 11029210 Diagnosed Test Package: MOB 2 (Additional Tests: PercentFuel)

: 16 May 2024

: 16 May 2024 - Wes Davis

: 13 May 2024

COLUMBIA, TN US 38401 Contact: BEN HARNESS ben@slectharness.com T: (615)733-4480

855 N JAMES CAMPBELL BLVD

* - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Submitted By: BILL ENYART

F:

HARNESS LLC