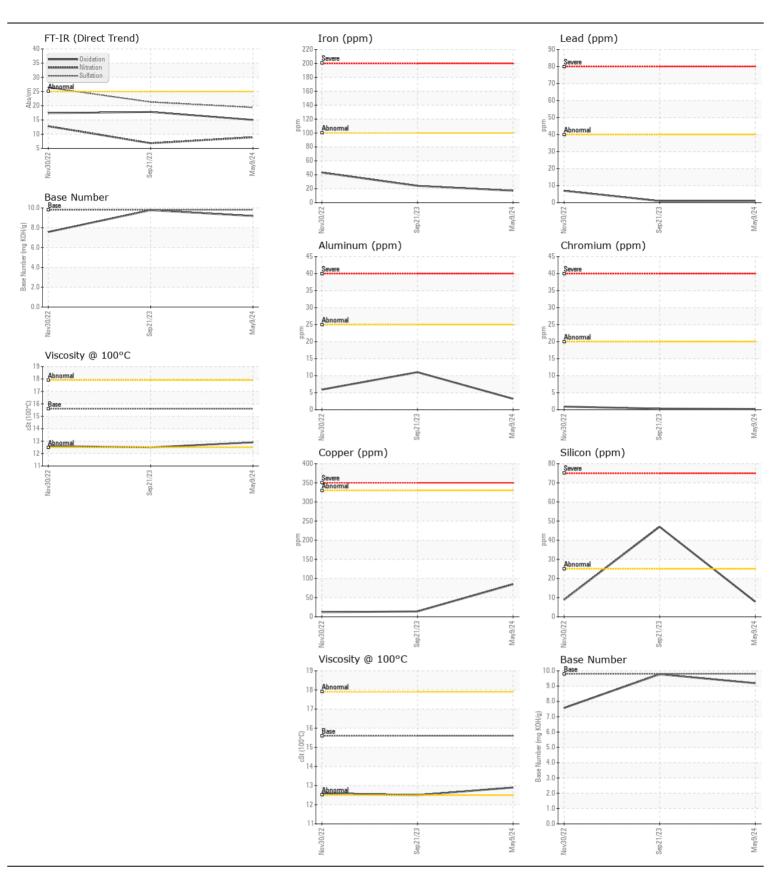
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL



Machine Id DZ-6
Component
Diesel Engine
Fluid

PETRO CANADA DURON HP 1	5W40 (G	AL)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		KFS0006089		KFS0002878
Resample at the next service interval to monitor.	Sample Date		Client Info		09 May 2024	21 Sep 2023	30 Nov 2022
	Machine Age	hrs	Client Info		6427	5592	4586
	Oil Age	hrs	Client Info		835	0	0
	Filter Age	hrs	Client Info		835	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	17	24	43
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m	>2	0	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		3	1 1	6
	Lead	ppm	ASTM D5185m		1	<1	7
	Copper	ppm	ASTM D5185m		85	14	12
	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	>25	8	4 7	9
	Potassium	ppm	ASTM D5185m	>20	<1	12	<1
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	0.5	0.3	0.9
	Nitration	Abs/cm	*ASTM D7624	>20	8.9	6.8	12.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	21.3	26.4
	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	23	4
	Boron	ppm	ASTM D5185m		1	41	5
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		1	0	0
	Molybdenum	ppm	ASTM D5185m		51	41	29
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		821	487	400
	Calcium	ppm	ASTM D5185m		1394	1851	2390
	Phosphorus	ppm	ASTM D5185m		1112	993	1076
	Zinc	ppm	ASTM D5185m		1262	1185	1312
	Sulfur	ppm	ASTM D5185m		4387	3693	7771
	Oxidation	Abs/.1mm	*ASTM D7414		15.0	17.8	17.4
	Base Number (BN)				9.19	9.77	7.57
	Visc @ 100°C	cSt	ASTM D445	15.6	12.9	12.5	12.6





Certificate L2367

Laboratory Sample No.

: KFS0006089 Lab Number : 06177878 Unique Number : 11029204 Test Package : MOB 2

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

: 13 May 2024 : 14 May 2024 : 14 May 2024 - Wes Davis Diagnosed

855 N JAMES CAMPBELL BLVD COLUMBIA, TN US 38401

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

HARNESS LLC

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: