WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

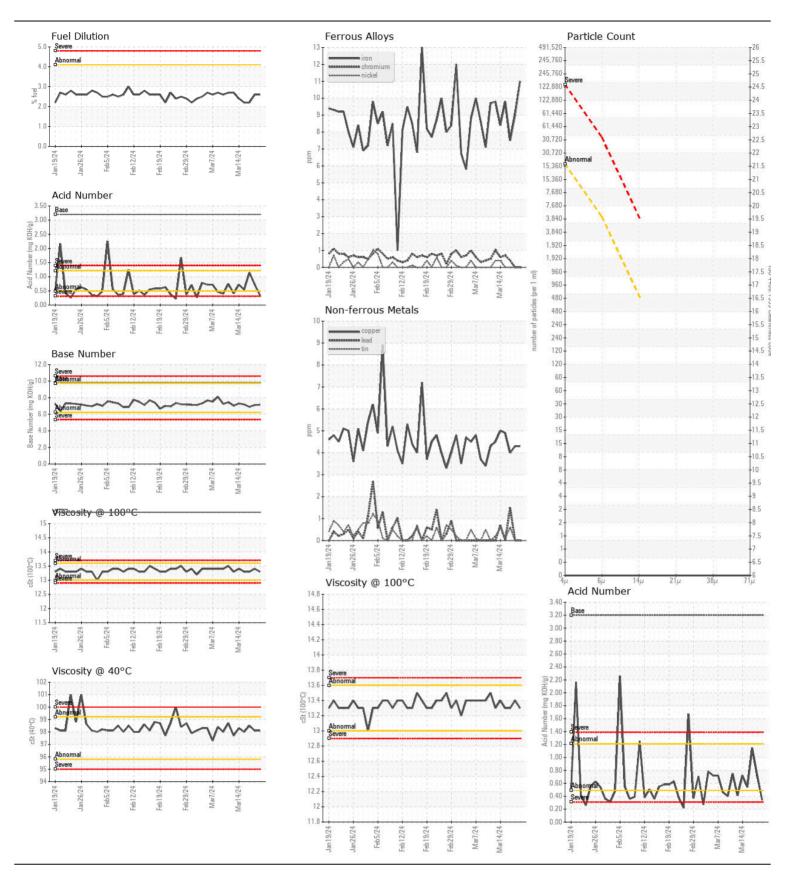
WCLSNC

QC230801DE

Component Diesel Engine

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

PETRO CANADA DURON SHP 15W40 (GAL							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0916216	WC0916215	WC091621
	Sample Date		Client Info		20 Mar 2024	19 Mar 2024	18 Mar 202
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed Filter Changed		Client Info		N/A N/A	N/A N/A	N/A N/A
	Sample Status		Client inio		NORMAL	NORMAL	NORMAL
					·····		TACTUVIAL
WEAR	Iron	ppm	ASTM D5185m	>11	11	9	8
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>3	0	0	<1
	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	<1	2
	Lead	ppm	ASTM D5185m		0	0	2
	Copper	ppm	ASTM D5185m		4	4	4
	Tin	ppm	ASTM D5185m ASTM D5185m	>2	0	0	<1
	Vanadium White Metal	ppm scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
<u> </u>			Visuai		·····		INOINE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>14	4	5	3
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	1	0	0
	Fuel	%	ASTM D3524	>4.1	2.6	2.6	2.2
	Water	%	ASTM D6304	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624		10.4	10.4	10.3
	Sulfation	Abs/.1mm	*ASTM D7415		20.1	20.1	20.2
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris Sand/Dirt	scalar scalar	*Visual *Visual	NONE	NONE NONE	NONE NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		7	6	6
The DN requit indicates that there is quitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		7	6	6
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		50	46	49
	Manganese	ppm	ASTM D5185m		0	0	0
	Magnesium Calcium	ppm	ASTM D5185m		587	543	535
	Phosphorus	ppm	ASTM D5185m ASTM D5185m		1626 755	1483 627	1596 673
	Zinc	ppm	ASTM D5185m		1020	879	920
	Sulfur	ppm	ASTM D5185m		2935	3373	2861
	Oxidation	Abs/.1mm	*ASTM D7414		17.5	17.5	17.3
	Acid Number (AN)				0.341	0.732	1.145
	Base Number (BN)		ASTM D2896		7.14	7.12	6.89
	Visc @ 40°C	cSt	ASTM D445		98.1	98.1	98.5
	\" 0 10000	oC+	ASTM D445		13.3	13.4	13.3
	Visc @ 100°C	cSt	ASTIVI D443	13.4	13.3	10.4	10.0





Lab Number Unique Number : 10938026

Laboratory Sample No. : 06123875

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0916216

Received : 20 Mar 2024 **Tested**

Diagnosed

: 27 Mar 2024 : 27 Mar 2024 - Jonathan Hester

WEARCHECK LUBRICATION SERVICES QA ACCOUNT 501 Madison Ave

Cary, NC US 27513

Test Package : MOB 2 (Additional Tests: FuelDilution, Glycol, KF, KV40, PercentFuel, PrtCoConttact: WCLS CARY NC 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.

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

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