WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

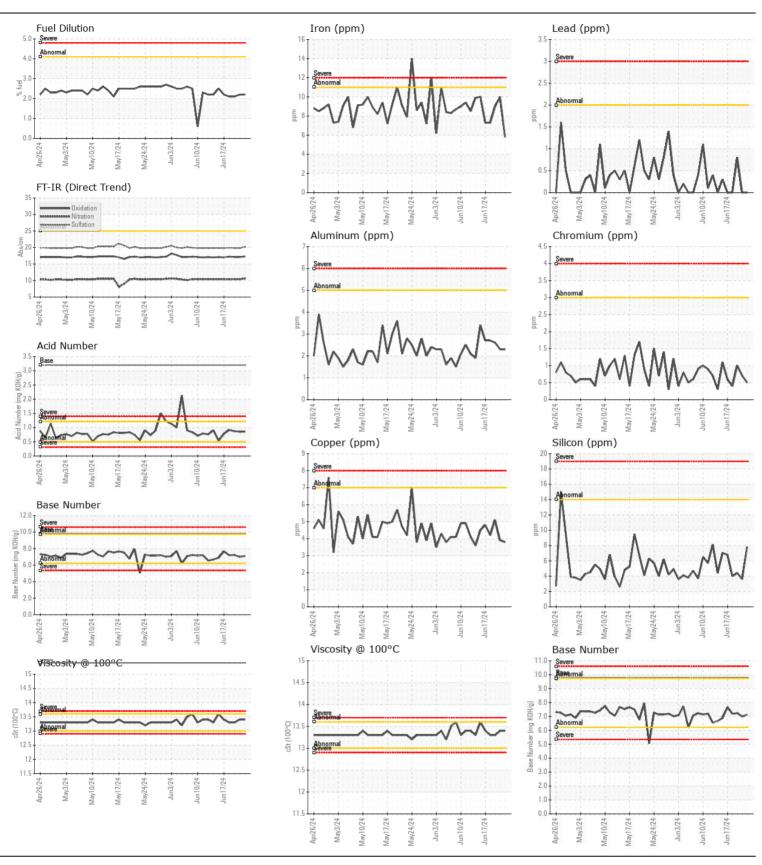
WCLSNC Machine Id

QC230801DE

Diesel Engine

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	OOW	Client Info	LIIIIIUAUII	WC0952362	WC0952361	WC095236
	Sample Date		Client Info		21 Jun 2024	20 Jun 2024	19 Jun 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	1110	Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMA
VEA D							
WEAR	Iron	ppm	ASTM D5185m		6	10	9
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	1
	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		2	2	3
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		4	4	5
	Tin	ppm	ASTM D5185m	>2	0	0	<1
	Vanadium	ppm	ASTM D5185m	NONE	0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NON
CONTAMINATION	Silicon	ppm	ASTM D5185m	>14	8	4	4
ONTAIMINATION	Potassium	ppm	ASTM D5185m	>20	3	<1	4
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		2.2	2.2	2.1
	Water	%	ASTM D6304		NEG	NEG	NEG
	Glycol	%	*ASTM D2982		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>0.3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624		10.6	10.4	10.4
	Sulfation	Abs/.1mm	*ASTM D7415		20.2	19.8	19.8
	Silt	scalar	*Visual	NONE	NONE	NONE	NON
	Debris	scalar	*Visual	NONE	NONE	NONE	NON
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NON
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m	L 10	8	7	7
-LOID CONDITION		ppm	ASTM D5185m		7	10	7
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium	ppm	ASTM D5185m		0	0	1
oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Molybdenum	• • • • • • • • • • • • • • • • • • • •	ASTM D5185m		54	49	50
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		527	522	509
	Calcium		ASTM D5185m		1498	1522	1441
	Phosphorus	ppm	ASTM D5185m		691	687	757
	Zinc	ppm	ASTM D5185m		947	922	920
	Sulfur	ppm	ASTM D5185m		2295	2782	2542
	Oxidation	Abs/.1mm	*ASTM D3163111		17.3	17.1	17.1
	Acid Number (AN)				0.86	0.85	0.87
	Base Number (BN)		ASTM D8043		7.12	6.99	7.24
	Visc @ 40°C	cSt	ASTM D2030		97.93	97.8	97.9
	Visc @ 40 C	cSt	ASTM D445		13.4	13.4	13.3





Laboratory Sample No. Lab Number

: WC0952362

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06217044

Received **Tested** Unique Number : 11089908 Diagnosed

: 26 Jun 2024

: 26 Jun 2024 - Jonathan Hester

: 21 Jun 2024

WEARCHECK LUBRICATION SERVICES QA ACCOUNT 501 Madison Ave

Cary, NC US 27513

Test Package : MOB 2 (Additional Tests: FuelDilution, Glycol, KF, KV40, PercentFuel, VI) Contact: 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. T: (919)379-4102 F: (919)379-4050 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)