WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

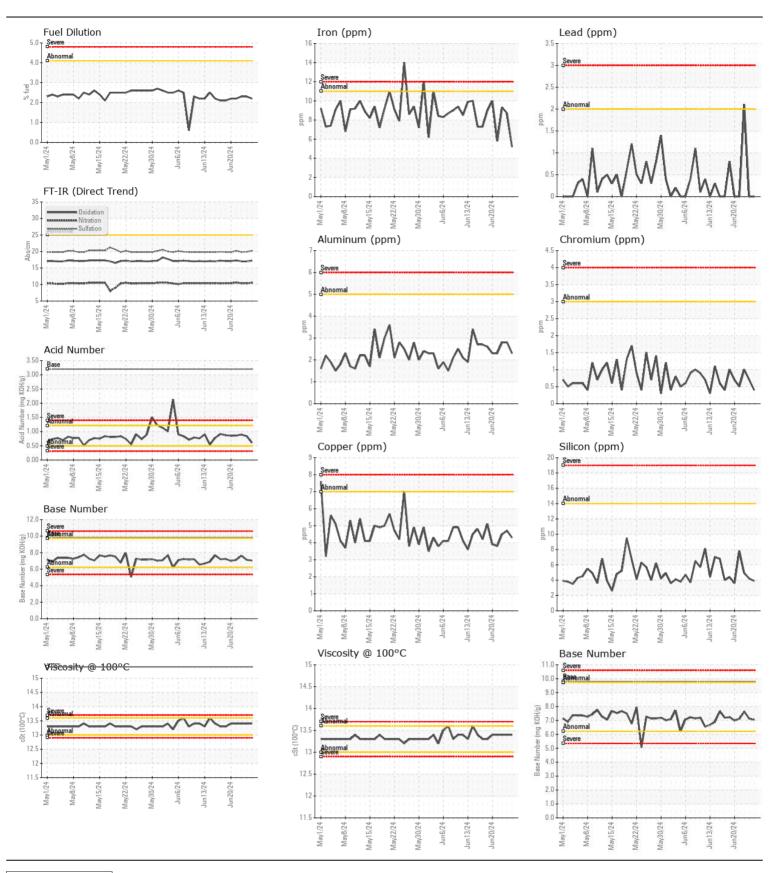
WCLSNC Machine Id

QC230801DE

Diesel Engine

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

PETRO CANADA DURON SHP 15W40 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0952367	WC0952366	WC0952365
Resample at the next service interval to monitor.	Sample Date		Client Info		26 Jun 2024	25 Jun 2024	24 Jun 2024
	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		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>11	5	9	9
	Chromium	ppm	ASTM D5185m	>3	<1	<1	1
	Nickel	ppm	ASTM D5185m	>2	0	<1	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>5	2	3	3
	Lead	ppm	ASTM D5185m	>2	0	0	2
	Copper	ppm	ASTM D5185m	>7	4	5	4
	Tin	ppm	ASTM D5185m	>2	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>14	4	4	5
	Potassium	ppm	ASTM D5185m	>20	3	3	5
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>4.1	2.2	2.3	2.3
	Water	%	ASTM D6304	>0.2	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	>10.8	10.5	10.4	10.4
	Sulfation	Abs/.1mm	*ASTM D7415	>20.8	20.2	19.9	19.8
	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	>13	7	13	8
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.	Boron	ppm	ASTM D5185m	0	7	9	6
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		50	51	50
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		519	580	553
	Calcium	ppm	ASTM D5185m		1468	1548	1671
	Phosphorus	ppm	ASTM D5185m		626	723	739
	Zinc	ppm	ASTM D5185m		969	960	991
	Sulfur	ppm	ASTM D5185m		2310	2790	2937
	Oxidation	Abs/.1mm	*ASTM D7414		17.2	17.0	17.0
	Acid Number (AN)	0 0	ASTM D8045		0.609	0.84	0.89
	Base Number (BN)				7.05	7.12	7.63
	Visc @ 100°C		ASTM D445		13.4	13.4	13.4
	Viscosity Index (VI)	Scale	ASTM D2270	142	136	133	136





Lab Number

Laboratory Sample No.

: WC0952367

: 06221411 Unique Number : 11099608

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Jun 2024

**Tested** : 01 Jul 2024 Diagnosed

: 01 Jul 2024 - Jonathan Hester Test Package : MOB 2 ( Additional Tests: FuelDilution, Glycol, KF, PercentFuel, VI )

WEARCHECK LUBRICATION SERVICES QA ACCOUNT 501 Madison Ave

Cary, NC US 27513 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) T: (919)379-4102 F: (919)379-4050