WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Area

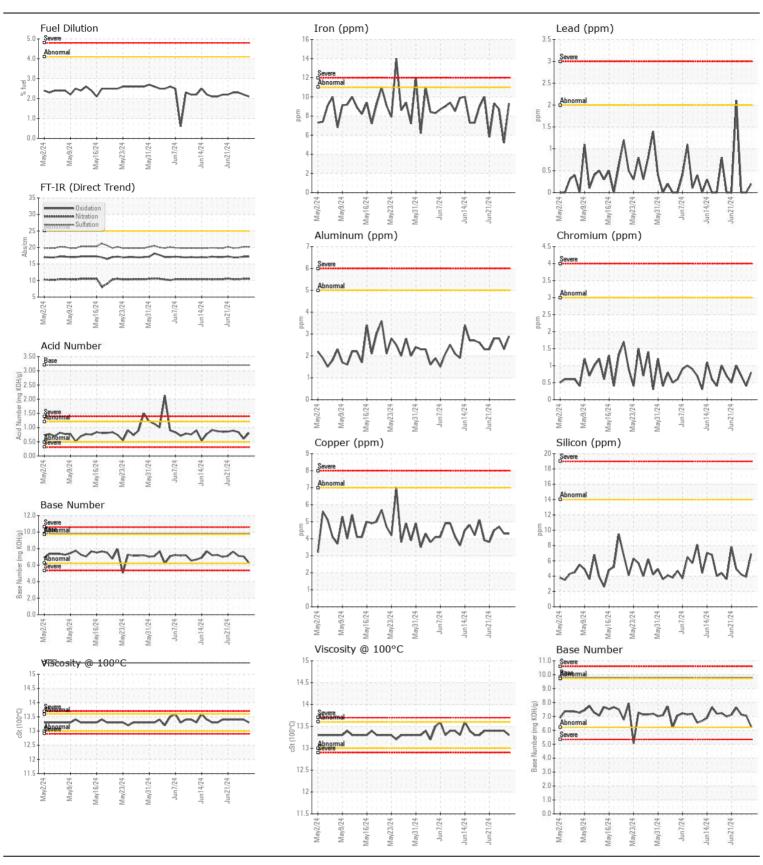
WCLSNC Machine Id

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		Client Info		WC0952368	WC0952367	WC0952366
	Sample Date		Client Info		27 Jun 2024	26 Jun 2024	25 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
<u></u>	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>11	9	5	9
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>3	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>5	3	2	3
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		4	4	5
	Tin	ppm	ASTM D5185m	>2	<1	0	0
	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	>14	7	4	4
OSITIANIIIATION	Potassium	ppm	ASTM D5185m		3	3	3
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		2.1	2.2	2.3
	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	>10.8	10.5	10.5	10.4
	Sulfation	Abs/.1mm	*ASTM D7415	>20.8	20.2	20.2	19.9
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>13	8	7	13
I LOID GONDITION	Boron	ppm	ASTM D5185m		7	7	9
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m		<1	0	0
oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m		46	50	51
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		495	519	580
	Calcium	ppm	ASTM D5185m		1369	1468	1548
	Phosphorus	ppm	ASTM D5185m		699	626	723
	Zinc	ppm	ASTM D5185m	1270	902	969	960
	Sulfur	ppm	ASTM D5185m	2060	2466	2310	2790
	Oxidation	Abs/.1mm	*ASTM D7414		17.2	17.2	17.0
	Acid Number (AN)	mg KOH/g	ASTM D8045	3.2	0.81	0.609	0.84
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.27	7.05	7.12
	Visc @ 40°C	cSt	ASTM D445		96.7	97.8	99.9
	Visc @ 100°C	cSt	ASTM D445		13.3	13.4	13.4
	Viscosity Index (VI)	Scale	ASTM D2270	142	136	136	133





Certificate L2367

Lab Number

Laboratory Sample No.

: WC0952368

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06222488

Tested Unique Number : 11100685 Diagnosed

: 27 Jun 2024 Received : 03 Jul 2024

: 03 Jul 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, VI) Contact: WCLS CARY NC

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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