WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

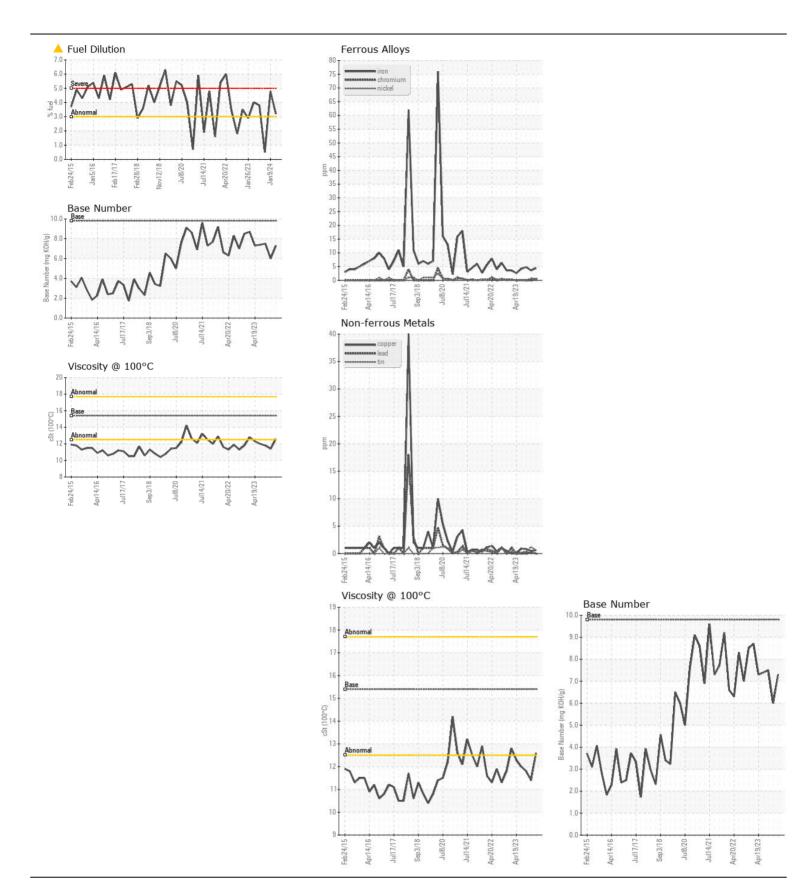
NORMAL



(YA111541)
Machine Id
2470

Component Diesel Engine

PETRO CANADA DURON SHP	15W40 (10 (GAL)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		PCA0101758	,	PCA0101731
	Sample Date		Client Info		28 Feb 2024	09 Jan 2024	05 Sep 2023
	Machine Age	hrs	Client Info		24410	24147	23553
	Oil Age	hrs	Client Info		263	785	785
	Filter Age	hrs	Client Info		263	785	785
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	ATTENTION
WEAD	Iron	nnm	ACTM DE10Em	. 120	4	1	5
WEAR	Iron	ppm	ASTM D5185m		4	4	5
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m		<1	0	0
		ppm	ASTM D5185m		<1	<1	0
	Titanium Silver	ppm	ASTM D5185m		<1 0	0	0
	Aluminum	ppm	ASTM D5185m ASTM D5185m		3	0 3	0
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		∪ <1		<1
	Tin	ppm	ASTM D5185m		<1 <1	<1 1	<1
	Vanadium	ppm	ASTM D5185m	<i>></i> 10	0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
			Visuai				INOINE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	7	4
There is a mandaught amount of five manager in the city Tasks confirms the	Potassium	ppm	ASTM D5185m	>20	<1	0	2
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D3524	>3.0	4 3.2	<u>4.8</u>	0.5
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>4	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.1	8.2	6.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.1	18.5	16.8
	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		3	19	3
TEGID GONDITION	Boron	ppm	ASTM D5185m	0	14	5	10
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		59	63	70
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		667	776	874
	Calcium	ppm		1070	1262	1017	1272
	Phosphorus	ppm	ASTM D5185m		970	895	970
	Zinc	ppm	ASTM D5185m		1192	1100	1188
							3516
	Sulfur	ppm	ASTM D5185m	2060	340 I	2743	3310
	Sulfur Oxidation	ppm Abs/.1mm	*ASTM D5185M		3481 13.1	14.1	12.4
		Abs/.1mm	*ASTM D7414	>25			







Certificate L2367

Laboratory Sample No.

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

: PCA0101758

Lab Number : 06104048

Unique Number : 10902278

Tested Diagnosed

Test Package : FLEET (Additional Tests: PercentFuel) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received

: 29 Feb 2024

: 04 Mar 2024

: 04 Mar 2024 - Wes Davis

* - 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)

GFL Environmental - 002 - Vance-Granville

241 Vanco Mill Rd Henderson, NC

US 27537 Contact: Cameron King

cameron.king@gflenv.com T: (252)438-5333

F: (252)431-1635