WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL NORMAL

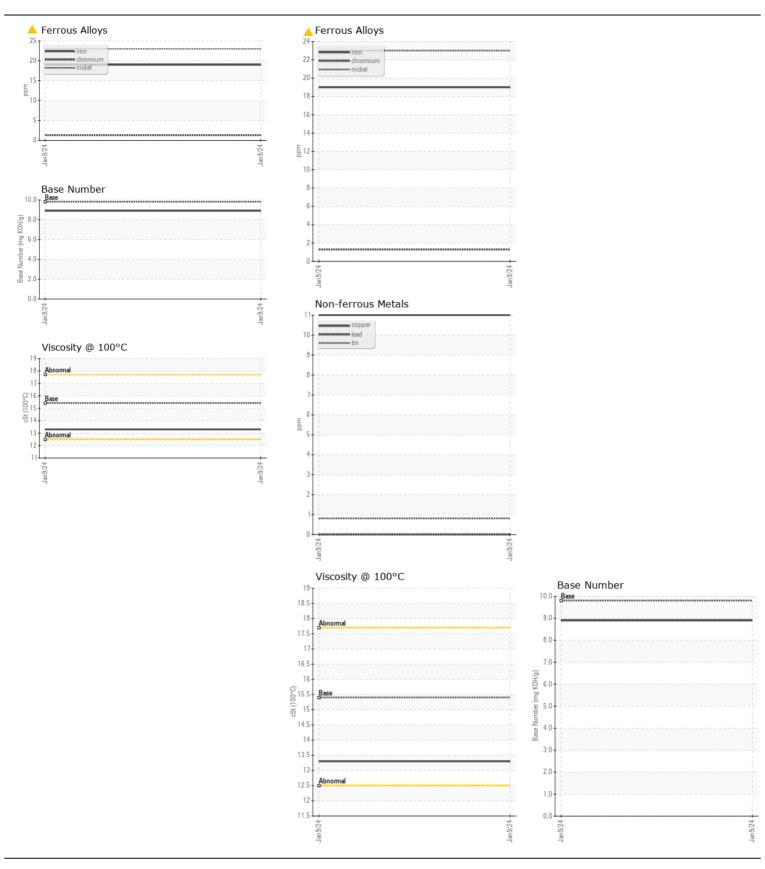


(BD38786)
Machine Id
413055

Component Diesel Engine

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

PETRO CANADA DURON SIIP		<del>~~.\=</del> /					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0095368		
	Sample Date		Client Info		09 Jan 2024		
	Machine Age	hrs	Client Info		365		
	Oil Age	hrs	Client Info		185		
	Filter Age	hrs	Client Info		185		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR  Valve wear is indicated. All other component wear rates are normal.	Iron	ppm	ASTM D5185m	>120	19		
	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m		<u>^</u> 23		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		8		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		11		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	11		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		23		
	Fuel		WC Method	>3.0	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	6.4		
	Sulfation	Abs/.1mm	*ASTM D7415		18.7		
	Silt	scalar	*Visual	NONE	NONE		
	Debris On add/Dist	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar scalar	*Visual	NORML	NORML		
	Odor		*Visual	NORML	NORML		
<u></u>	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	0	38		
	Barium	ppm	ASTM D5185m	0	0		
	Molybdenum	ppm	ASTM D5185m	60	65		
	Manganese	ppm	ASTM D5185m	0	2		
	Magnesium	ppm	ASTM D5185m	1010	881		
	Calcium	ppm	ASTM D5185m	1070	1214		
	Phosphorus	ppm	ASTM D5185m	1150	1007		
	Zinc	ppm	ASTM D5185m	1270	1215		
	Sulfur	ppm	ASTM D5185m		3165		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6		
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.9		
	Visc @ 100°C	cSt	ASTM D445	15.4	13.3		







Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10833198

: GFL0095368 : 06061816 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024

Diagnosed : 18 Jan 2024 Diagnostician : Don Baldridge GFL Environmental - 412 - Northern Michigan TS 348 US-41

Negaunee, MI US 49866

Contact: Service Manager

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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F: