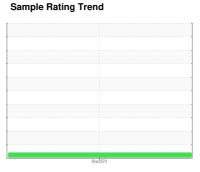


OIL ANALYSIS REPORT









Machine Id 914034 Component **Diesel Engine**

PETRO CANADA DURO

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

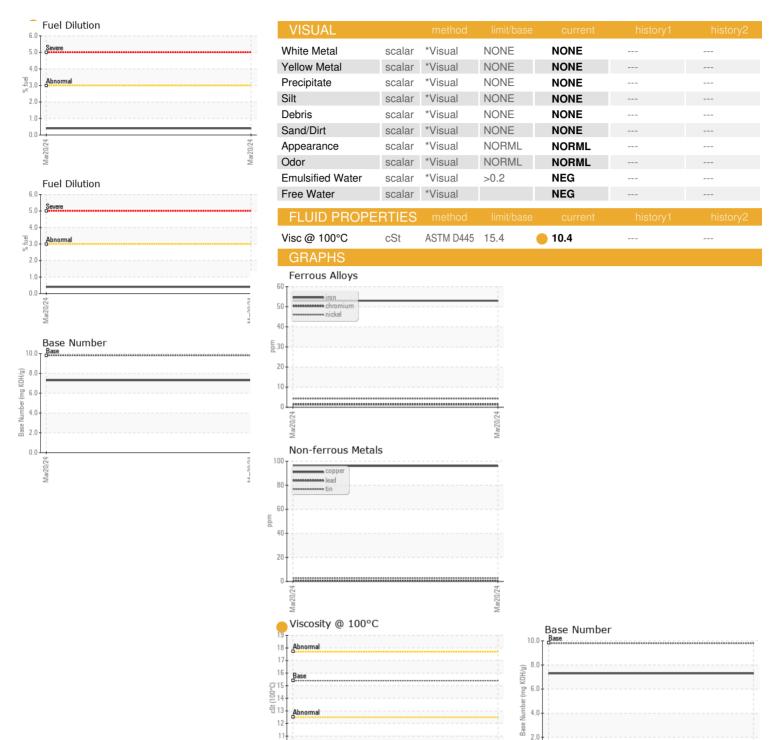
Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

N SHP 15W40 (GAL)			Mar2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116162		
Sample Date		Client Info		20 Mar 2024		
Machine Age	hrs	Client Info		634		
Dil Age	hrs	Client Info		634		
Oil Changed	0	Client Info		Changed		
Sample Status				ATTENTION		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Nater		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	53		
Chromium	ppm	ASTM D5185m	>20	1		
lickel	ppm	ASTM D5185m	>5	4		
itanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Muminum	ppm	ASTM D5185m	>20	6		
.ead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	96		
in	ppm	ASTM D5185m	>15	3		
/anadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	146		
Barium	ppm	ASTM D5185m	0	0		
Nolybdenum	ppm	ASTM D5185m	60	118		
Manganese	ppm	ASTM D5185m	0	4		
/lagnesium	ppm	ASTM D5185m	1010	777		
Calcium	ppm	ASTM D5185m	1070	1540		
hosphorus	ppm	ASTM D5185m	1150	749		
inc .	ppm	ASTM D5185m	1270	888		
Sulfur	ppm	ASTM D5185m	2060	2847		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	63		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	6		
uel	%	ASTM D3524	>3.0	0.4		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5		
litration	Abs/cm	*ASTM D7624	>20	9.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.1		
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2
N! al a. 4! a						
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.9		



OIL ANALYSIS REPORT







Laboratory Sample No.

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

: GFL0116162 Lab Number : 06129771

Unique Number : 10949236

Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

Received

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.

: 26 Mar 2024 **Tested** : 02 Apr 2024 : 02 Apr 2024 - Jonathan Hester Diagnosed

0.0

N7296 County Rd V

US 53032 Contact: Tim Kieffer tim.kieffer@gflenv.com T: (608)219-0288

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

GFL Environmental - 947 - WB Horicon HC

Horicon, WI