

OIL ANALYSIS REPORT

Sample Rating Trend







927026 Component **Diesel Engine**

PETRO CANADA DURO

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Aluminum, iron and nickel ppm levels are abnormal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

N SHP 15W40 (GAL)					
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SAMPLE INFOR	RIVIATION		limit/base	current	history1	history2
Sample Number		Client Info		GFL0055997		
Sample Date		Client Info		11 Jan 2023		
Machine Age	hrs	Client Info		24213		
Oil Age	hrs	Client Info		600 Ohammad		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	△ 358		
Chromium	ppm	ASTM D5185m	>20	13		
Nickel	ppm	ASTM D5185m	>5	<u> </u>		
Titanium	ppm	ASTM D5185m	>2	2		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>20	<u>42</u>		
Lead	ppm	ASTM D5185m	>40	32		
Copper	ppm	ASTM D5185m	>330	14		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	20		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	74		
Manganese	ppm	ASTM D5185m	0	3		
Magnesium	ppm	ASTM D5185m	1010	999		
Calcium	ppm	ASTM D5185m	1070	1284		
Phosphorus	ppm	ASTM D5185m	1150	1083		
Zinc	ppm	ASTM D5185m		1300		
Sulfur	ppm	ASTM D5185m	2060	3077		
CONTAMINAL	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	△ 34		
Sodium	ppm	ASTM D5185m		7		
Potassium	ppm	ASTM D5185m	>20	4		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.6		
Vitration	Abs/cm	*ASTM D7624	>20	8.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3		

limit/base

current

16.4

6.7

FLUID DEGRADATION method

Base Number (BN) mg KOH/g ASTM D2896 9.8

Abs/.1mm *ASTM D7414 >25

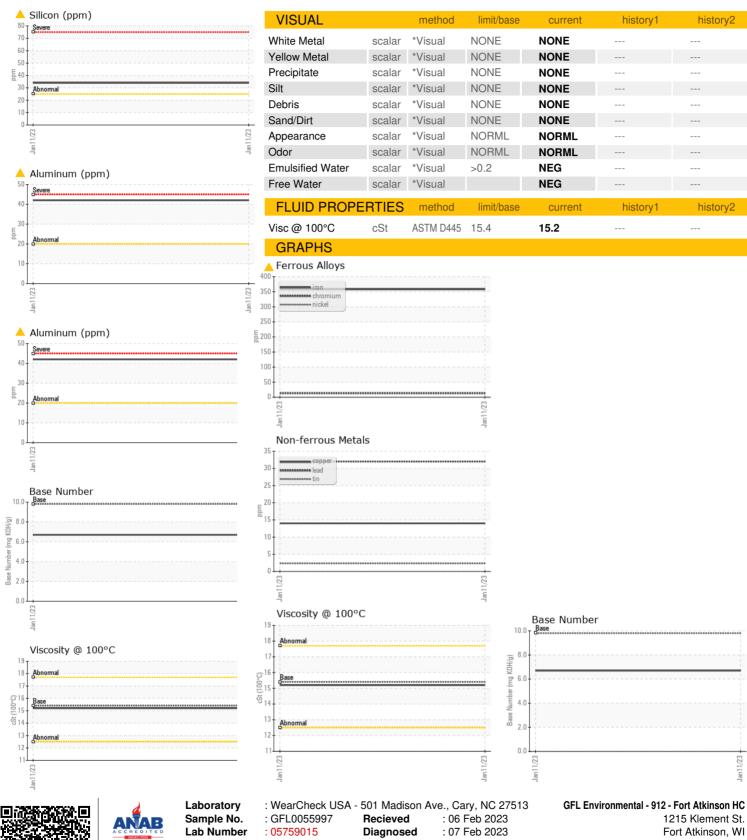
Oxidation

history1

history2



OIL ANALYSIS REPORT





Certificate L2367

Unique Number

: 10323622 Test Package : FLEET

Diagnostician : Angela Borella

US 53538

Contact: LEONARD KOZLEUCHAR leonard.kozleuchar@gflenv.com T: (262)210-6528

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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