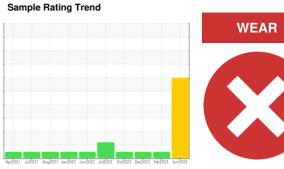


# **OIL ANALYSIS REPORT**



Machine Id 501036 **Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (--- LTR)



## DIAGNOSIS

#### Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

### Wear

Nickel ppm levels are severe. A sharp increase in the nickel level is noted. Exhaust valve wear is indicated.

#### Contamination

There is no indication of any contamination in the

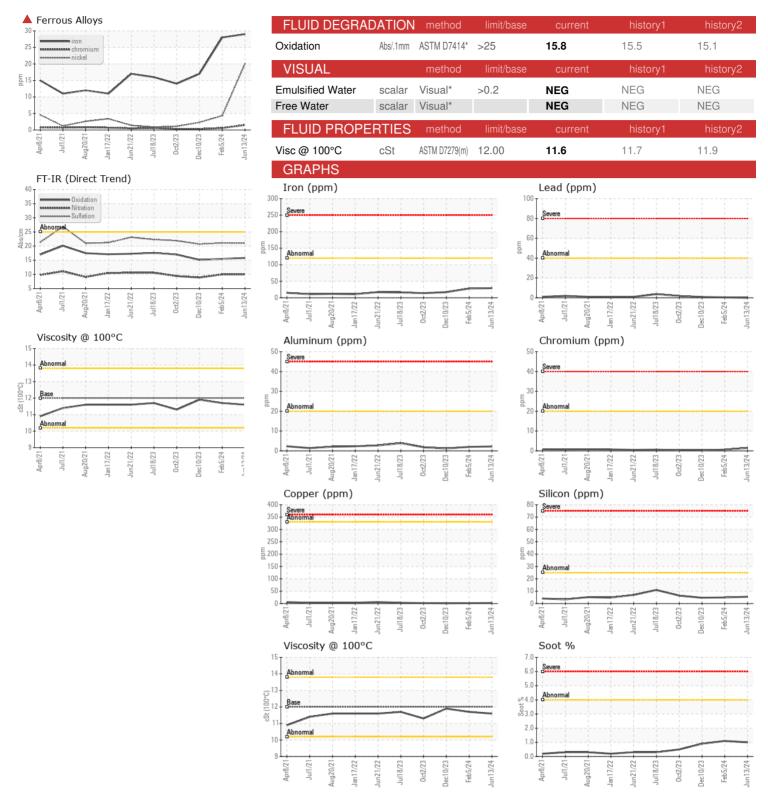
### **Fluid Condition**

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0119018	GFL0102634	GFL0101736
Sample Date		Client Info		13 Jun 2024	05 Feb 2024	10 Dec 2023
Machine Age	kms	Client Info		869837	0	0
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINAT	TON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>120	29	28	17
Chromium	ppm	ASTM D5185(m)	>20	2	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>2</b> 0	4	2
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	2	1
_ead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	2	2	1
Γin	ppm	ASTM D5185(m)	>15	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	3	3	3
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	61	60	59
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	950	953	947	927
Calcium	ppm	ASTM D5185(m)	1050	1045	1069	1050
Phosphorus	ppm	ASTM D5185(m)	995	959	982	943
Zinc	ppm	ASTM D5185(m)	1180	1162	1155	1137
Sulfur	ppm	ASTM D5185(m)	2600	2347	2583	2330
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	5	5
Sodium	ppm	ASTM D5185(m)		24	23	30
Potassium	ppm	ASTM D5185(m)	>20	2	2	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	1	1.1	0.9
Vitration	Abs/cm	ASTM D7624*	>20	10.0	10.0	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.0	21.1	20.7



# **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02644005 Unique Number : 5801544 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW : 25 Jun 2024 : GFL0119018 Received Tested : 25 Jun 2024

Diagnosed

: 25 Jun 2024 - Kevin Marson

8409 -15th Street NW Edmonton, AB **CA T6P 0B8** Contact: Tim Greig tgreig@gflenv.com T: (780)231-0521

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.