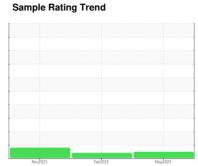


OIL ANALYSIS REPORT









Machine Id 933036 **Natural Gas Engine** PETRO CANADA DURON SHP 15W40 (5 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

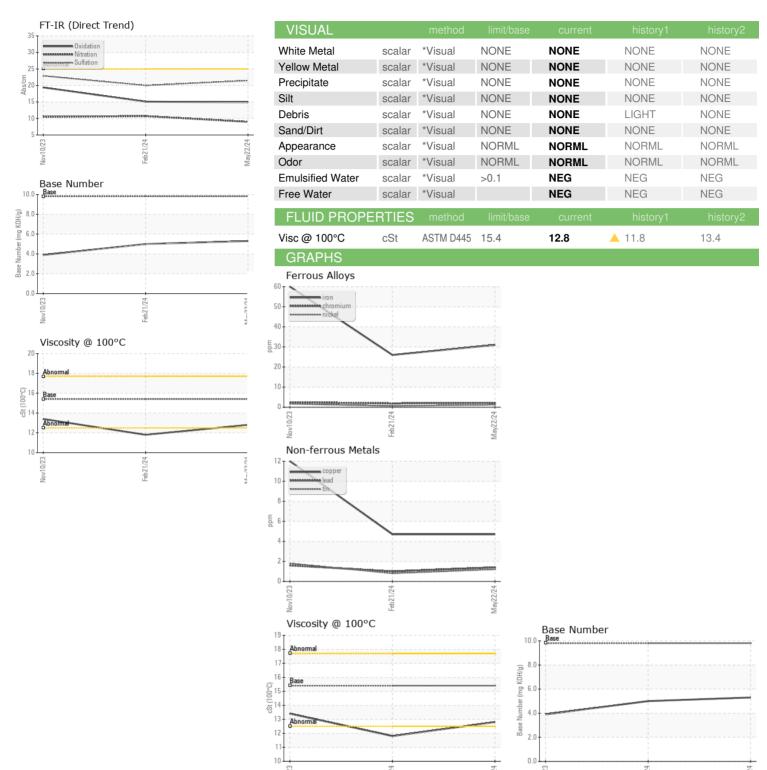
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

ON SHP 15W40 (5 GAL)	No	v2023	Feb 2024 May 20	124	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103396	GFL0103420	GFL0074640
Sample Date		Client Info		22 May 2024	21 Feb 2024	10 Nov 2023
Machine Age	hrs	Client Info		2112	1143	1143
Oil Age	hrs	Client Info		0	762	1143
Oil Changed		Client Info		N/A	Not Changd	Changed
Sample Status				NORMAL	MARGINAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	31	26	△ 60
Chromium	ppm	ASTM D5185m	>5	2	2	2
Nickel	ppm	ASTM D5185m	>4	1	<1	2
Titanium	ppm	ASTM D5185m	>5	<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	4	4	19
_ead	ppm	ASTM D5185m	>40	1	1	2
Copper	ppm	ASTM D5185m	>150	5	5	12
Γin	ppm	ASTM D5185m	>4	1	<1	2
√anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	3	5
Barium	ppm	ASTM D5185m	0	<1	<1	0
Molybdenum	ppm	ASTM D5185m	60	71	68	63
Manganese	ppm	ASTM D5185m	0	2	2	12
Magnesium	ppm	ASTM D5185m	1010	931	840	911
Calcium	ppm	ASTM D5185m	1070	1153	1067	1042
Phosphorus	ppm	ASTM D5185m	1150	1129	891	891
Zinc	ppm	ASTM D5185m	1270	1317	1133	1181
Sulfur	ppm	ASTM D5185m	2060	3088	2392	2425
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	18
Sodium	ppm	ASTM D5185m		5	7	3
Potassium	ppm	ASTM D5185m	>20	10	8	52
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	9.0	10.7	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	20.0	22.9
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	15.1	19.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.3	5.0	3.9



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: GFL0103396 Lab Number : 06187401 Unique Number : 11044153 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Diagnosed

: 22 May 2024 : 31 May 2024

: 31 May 2024 - Wes Davis

GFL Environmental - 095 - Atlanta West 2699 Cochran Industrial Blvd

Douglasville, GA US 30127-1332 Contact: Darrell Welch darrell.welch@gflenv.com

 st - 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) T: (800)207-6618