

OIL ANALYSIS REPORT

Sample Rating Trend







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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. No other corrective action is recommended at this time.

Wear

Iron ppm levels are marginal. A sharp increase in the iron level is noted. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

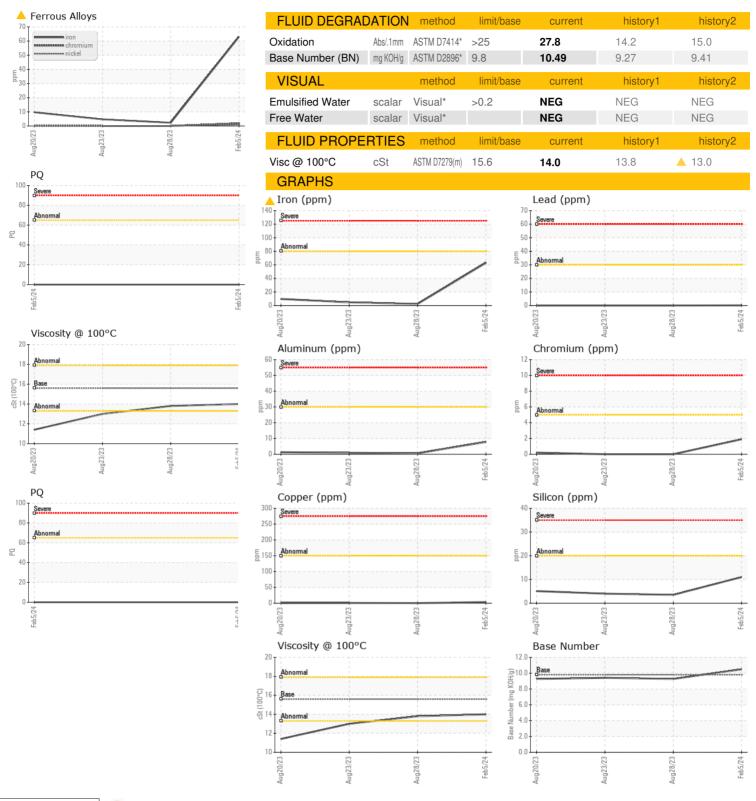
The BN result indicates that there is suitable alkalinity remaining in the oil.

) OF 111 15W40 (Aug2023 Aug2023 Feb2024					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0099561	GFL0084356	GFL0084361
Sample Date		Client Info		05 Feb 2024	28 Aug 2023	23 Aug 2023
Machine Age	hrs	Client Info		14441	13947	312958
Oil Age	hrs	Client Info		560	365	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<u>2.4</u>
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
PQ		ASTM D8184*	>65	0		
Iron	ppm	ASTM D5185(m)	>80	△ 63	2	5
Chromium	ppm	ASTM D5185(m)	>5	2	0	0
Nickel	ppm	ASTM D5185(m)	>2	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	8	<1	<1
Lead	ppm	ASTM D5185(m)	>30	<1	0	0
Copper	ppm	ASTM D5185(m)	>150	4	<1	<1
Tin	ppm	ASTM D5185(m)	>5	<1	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)	0	5	5	4
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	72	54	54
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	1188	903	921
Calcium	ppm	ASTM D5185(m)	1070	1387	997	1003
Phosphorus	ppm	ASTM D5185(m)	1150	1200	987	1018
Zinc	ppm	ASTM D5185(m)	1270	1459	1097	1108
Sulfur	ppm	ASTM D5185(m)	2060	2585	2460	2483
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	11	4	4
Sodium	ppm	ASTM D5185(m)		3	2	2
Potassium	ppm	ASTM D5185(m)	>20	1	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.6	0	0
Nitration	Abs/cm	ASTM D7624*	>20	14.1	5.4	6.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.3	19.6	20.0

Submitted By: GFL Calgary



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02615268 Unique Number : 5724363

: GFL0099561

Received **Tested** Diagnosed Test Package: MOB 2 (Additional Tests: PQ)

: 13 Feb 2024 : 14 Feb 2024

: 14 Feb 2024 - Kevin Marson

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County 220 Carmek Blvd Rocky View County, AB **CA T1X 1X1**

Contact: GFL Calgary calgarymaintenance@gflenv.com

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.

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