

OIL ANALYSIS REPORT



Sample Rating Trend



PETRO CANADA DURON SHP 15W40 (40 QTS)

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

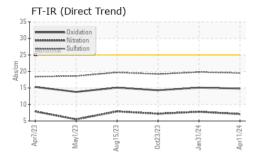
Fluid Condition

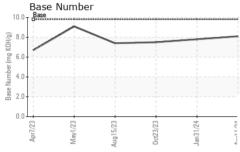
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

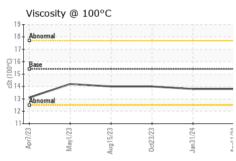
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110790	GFL0092864	GFL0092857
Sample Date		Client Info		11 Apr 2024	31 Jan 2024	23 Oct 2023
Machine Age	hrs	Client Info		3266	2849	2268
Oil Age	hrs	Client Info		417	581	440
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ION	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 METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	11	10	12
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	3	2	2
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	2
			>40	1	0	<1
Lead	ppm	ASTM D5185m				
Copper	ppm		>330	2	1	3
Tin	ppm	ASTM D5185m	>15	2	1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	11	7	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	65	60	60
Manganese	ppm	ASTM D5185m	0	1	<1	0
Magnesium	ppm	ASTM D5185m	1010	950	939	904
Calcium	ppm	ASTM D5185m	1070	1161	1010	1033
Phosphorus	ppm	ASTM D5185m	1150	1117	1015	972
Zinc	ppm	ASTM D5185m	1270	1264	1237	1176
Sulfur	ppm	ASTM D5185m	2060	3504	2755	3159
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	2	3
Sodium	ppm	ASTM D5185m		18	4	6
Potassium		ASTM D5185m	>20	3	0	3
Potassium	ppm	AOTIVI DOTODITI	/20	U	0	0
INFRA-RED	ppm	method	limit/base	current	history1	history2
	ppm %					
INFRA-RED Soot %	%	method	limit/base	current 0.5	history1	history2
INFRA-RED		method *ASTM D7844	limit/base	current	history1	history2
INFRA-RED Soot % Nitration	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624	limit/base >4 >20	current 0.5 7.1	history1 0.6 7.8	history2 0.6 7.2
INFRA-RED Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >4 >20 >30	current 0.5 7.1 19.5	history1 0.6 7.8 19.8	history2 0.6 7.2 19.2



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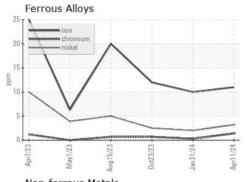


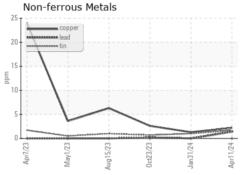


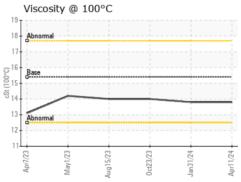
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

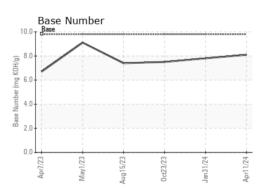
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.8	14.0	

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06152553 Unique Number : 10982631

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0110790

Received **Tested** Diagnosed

: 17 Apr 2024 : 18 Apr 2024

: 18 Apr 2024 - Wes Davis

1001 E Blvd Kingsford, MI US 49802 Contact: Service Manager

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)

Report Id: GFL411 [WUSCAR] 06152553 (Generated: 04/18/2024 17:41:34) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

GFL Environmental - 411 - Kingsford HC

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