

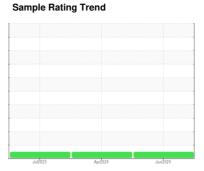
OIL ANALYSIS REPORT

(62517Z) S0916A-Suamico 925047



Front Center Diesel Engine

PETRO CANADA DURON SHP 15W40 (42 QTS)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

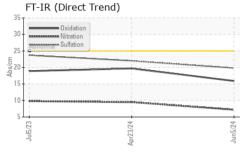
Fluid Condition

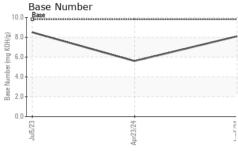
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

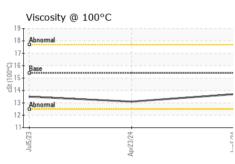
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106248	GFL0115657	GFL0074827
Sample Date		Client Info		05 Jun 2024	23 Apr 2024	05 Jul 2023
Machine Age	hrs	Client Info		22059	15983	14847
Oil Age	hrs	Client Info		0	0	488
Oil Changed	1110	Client Info		Changed	Changed	Changed
Sample Status		Olichi iilio		NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method	70.2	NEG	NEG	NEG
	_					
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	1	9	9
Chromium	ppm	ASTM D5185m		<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	2
Lead	ppm	ASTM D5185m	>40	0	4	0
Copper	ppm	ASTM D5185m	>330	0	2	0
Tin	ppm	ASTM D5185m	>15	0	2	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	7	2	12
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	57	63
Manganese	ppm	ASTM D5185m	0	0	<1	0
Magnesium	ppm	ASTM D5185m	1010	942	909	960
Calcium	ppm	ASTM D5185m	1070	1062	1054	1117
Phosphorus	ppm	ASTM D5185m	1150	937	936	971
Zinc	nnm	ASTM D5185m	1270		1189	1232
<u> </u>	ppm	VO LINI DO LOOILI	1210	1261	1100	
Sulfur	ppm	ASTM D5185m	2060	1261 2848	2779	3286
-	ppm			-		3286 history2
Sulfur	ppm	ASTM D5185m	2060 limit/base	2848	2779	history2
Sulfur CONTAMINAN	ppm TS	ASTM D5185m method	2060 limit/base	2848 current	2779 history1	history2
Sulfur CONTAMINAN Silicon	ppm TS ppm	ASTM D5185m method ASTM D5185m	2060 limit/base	2848 current 3	2779 history1 4	history2
Sulfur CONTAMINAN Silicon Sodium	ppm TS ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	2060 limit/base >25	2848 current 3 3	2779 history1 4 3	history2 2 3
Sulfur CONTAMINAN Silicon Sodium Potassium	ppm TS ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	2060 limit/base >25 >20	2848 current 3 3 2	2779 history1 4 3 3	history2 2 3 0
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm TS ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	2060 limit/base >25 >20 limit/base	2848 current 3 3 current	2779 history1 4 3 3 history1	history2 2 3 0 history2
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm TS ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	2060 limit/base >25 >20 limit/base >4	2848	2779 history1 4 3 3 history1 0.2	history2 2 3 0 history2 0.3
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm Abs/cm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	2060 limit/base >25 >20 limit/base >4 >20	2848	2779 history1 4 3 3 history1 0.2 9.5	history2 2 3 0 history2 0.3 9.8
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm Abs/cm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	2060 limit/base >25 >20 limit/base >4 >20 >30	2848	2779 history1 4 3 3 history1 0.2 9.5 22.0	history2 2 3 0 history2 0.3 9.8 23.7

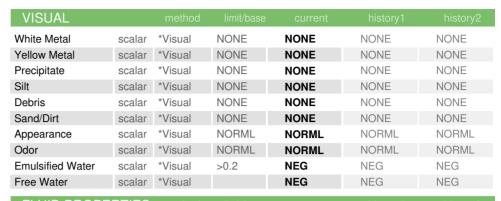


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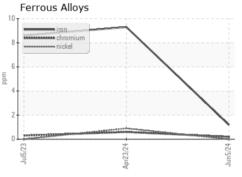


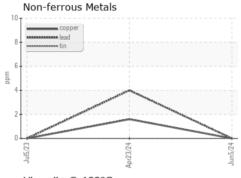


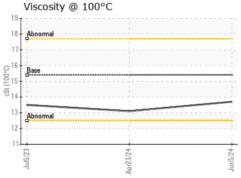


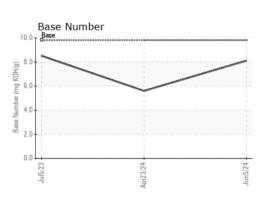
FLUID PROP	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.1	13.5

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0106248 Lab Number : 06220915 Unique Number : 11099112 Test Package : FLEET

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

: 26 Jun 2024 **Tested** : 27 Jun 2024 Diagnosed

: 27 Jun 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] 06220915 (Generated: 06/27/2024 11:23:19) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

GFL Environmental - 411 - Kingsford HC

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