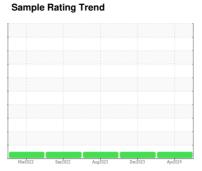


OIL ANALYSIS REPORT



Machine Id 910092 **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- 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

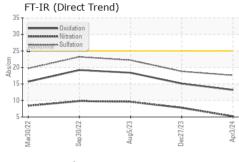
Fluid Condition

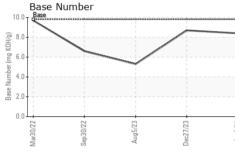
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

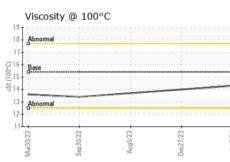
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104481	GFL0104397	GFL0085060
Sample Date		Client Info		03 Apr 2024	27 Dec 2023	05 Aug 2023
Machine Age	hrs	Client Info		32969	9221	8181
Oil Age	hrs	Client Info		600	9221	8181
Oil Changed	0	Client Info		Changed	N/A	Changed
Sample Status		Chorte hillo		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	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	6	12	20
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	3	1
Lead	ppm	ASTM D5185m	>40	<1	0	2
Copper	ppm	ASTM D5185m	>330	1	3	2
Tin	ppm	ASTM D5185m		<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	11	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	64	60	62
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	958	881	999
Calcium	ppm	ASTM D5185m	1070	1066	1058	1135
Phosphorus	ppm	ASTM D5185m	1150	944	1007	945
Zinc	ppm	ASTM D5185m	1270	1205	1201	1301
Sulfur	ppm	ASTM D5185m	2060	2924	2974	2767
Sulfur CONTAMINAN ⁻		ASTM D5185m method	2060 limit/base	2924 current	2974 history1	2767 history2
		method		-		
CONTAMINAN [*]	TS	method	limit/base	current	history1	history2
CONTAMINAN [®] Silicon	TS ppm	method ASTM D5185m	limit/base	current 7	history1	history2
CONTAMINAN ^T Silicon Sodium	TS ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 7 2	history1 8 3	history2 4 5
CONTAMINAN Silicon Sodium Potassium	TS ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20	current 7 2 2	history1 8 3 1	history2 4 5 0
CONTAMINAN Silicon Sodium Potassium INFRA-RED	TS ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >25 >20 limit/base	current 7 2 2 current	history1 8 3 1 history1	history2 4 5 0 history2
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	limit/base >25 >20 limit/base >4	current 7 2 2 current 0.2	history1 8 3 1 history1 0.3	history2 4 5 0 history2 1.1
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	limit/base >25	current 7 2 2 current 0.2 5.2	history1 8 3 1 history1 0.3 7.8	history2 4 5 0 history2 1.1 9.6
CONTAMINANT Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >25	current 7 2 2 current 0.2 5.2 17.6	history1 8 3 1 history1 0.3 7.8 18.8	history2 4 5 0 history2 1.1 9.6 22.2

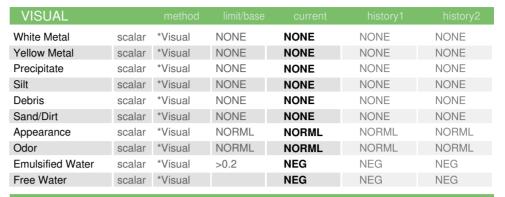


OIL ANALYSIS REPORT



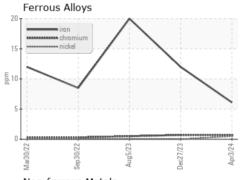


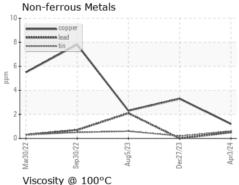


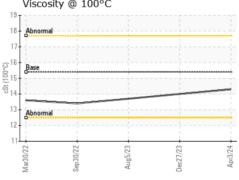


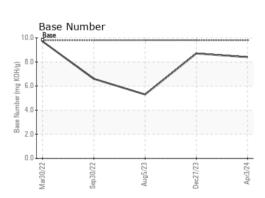
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.0	13.7

GRAPHS













Laboratory Sample No.

: GFL0104481 Lab Number : 06140946 Unique Number : 10965754

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Apr 2024

Tested : 08 Apr 2024 Diagnosed : 08 Apr 2024 - Wes Davis

GFL Environmental - 410 - Michigan West

39000 Van Born Rd Wayne, MI US 48184

Contact: Belal Dgheish bdgheish@gflenv.com T: (734)714-2340

Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 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)