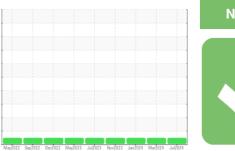


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
429084
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (--- LTR)

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

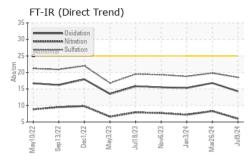
Fluid Condition

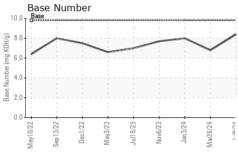
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

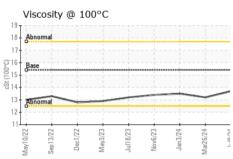
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
Sample Number	/// TION	Client Info		GFL0106063	GFL0106122	GFL0106097
Sample Date		Client Info		09 Jul 2024	26 Mar 2024	03 Jan 2024
Machine Age	hrs	Client Info		13930	13194	12620
Oil Age	hrs	Client Info		0	600	600
Oil Changed	1110	Client Info		Not Changd	Changed	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	4	5	3
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	1	4	2
Lead	ppm	ASTM D5185m	>40	0	1	0
Copper	ppm	ASTM D5185m	>330	1	2	<1
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	9	3	3
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	56	64	60
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	848	939	959
Calcium	ppm	ASTM D5185m	1070	1036	1098	1065
Phosphorus	ppm	ASTM D5185m	1150	994	1013	995
Zinc	ppm	ASTM D5185m	1270	1166	1232	1234
Sulfur	nnm	ACTM DE10Ess			0=0=	3069
Janui	ppm	ASTM D5185m	2060	3313	2785	3009
CONTAMINAN		method	limit/base	3313 current	2/85 history1	history2
			limit/base		history1	history2
CONTAMINAN [*]	TS	method	limit/base	current	history1	history2
CONTAMINAN [®] Silicon	TS ppm	method ASTM D5185m	limit/base	current 3	history1	history2
CONTAMINANT Silicon Sodium	TS ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 3 3	history1 5 4	history2 3 2
CONTAMINAN Silicon Sodium Potassium	TS ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20	current 3 3 1	history1 5 4 4	history2 3 2 2
CONTAMINANT Silicon Sodium Potassium INFRA-RED	TS ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >25 >20 limit/base	current 3 3 1 current	history1 5 4 4 history1	history2 3 2 2 history2
CONTAMINANT 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 3 3 1 current 0.2	history1 5 4 4 history1 0.3	history2 3 2 2 history2 0.2
CONTAMINANT 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 3 3 1 current 0.2 6.0	history1 5 4 4 history1 0.3 8.3	history2 3 2 2 history2 0.2 7.2
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 3 3 1 current 0.2 6.0 18.5	history1 5 4 4 history1 0.3 8.3 19.8	history2 3 2 2 history2 0.2 7.2 18.8



OIL ANALYSIS REPORT



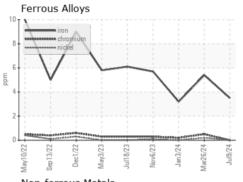




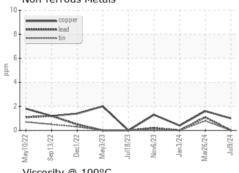
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

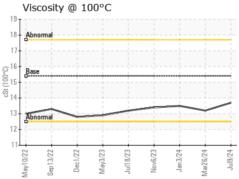
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.2	13.5	

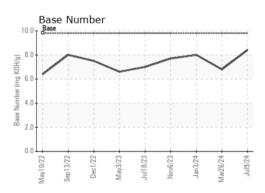
GRAPHS















Certificate 12367

Laboratory Sample No.

Lab Number : 06235372 Unique Number : 11124206

Test Package : FLEET

: GFL0106063

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Jul 2024

Tested : 15 Jul 2024 Diagnosed : 15 Jul 2024 - Wes Davis

GFL Environmental - 152 - Jacksonville

7580 PHILIPS HWY Jacksonville, FL US 32256

T: 1(904)252-6815

Contact: GRANVILLE CARROLL gcarroll@gflenv.com

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)