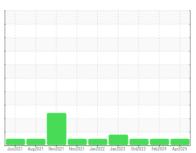


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
628M
Component
Diesel Engine
Fluid

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

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

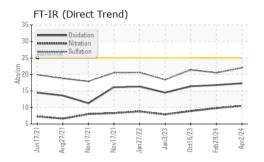
Fluid Condition

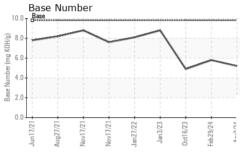
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

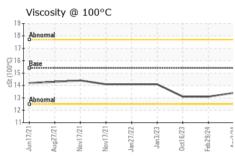
SAMPLE INFORM	MOLTAN	method	limit/base	current	history1	history2
Sample Number	717 (1101)	Client Info		GFL0117731	GFL0108954	GFL0093174
Sample Date		Client Info		02 Apr 2024	29 Feb 2024	16 Oct 2023
Machine Age	hrs	Client Info		13462	11642	11500
Oil Age	hrs	Client Info		11642	11500	10854
Oil Changed	1110	Client Info		Changed	Changed	Changed
Sample Status				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	7 U.L	NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron		ASTM D5185m	>120	19	19	23
Chromium	ppm	ASTM D5185m		<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	1	<1	1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m		6	4	5
	ppm			-		
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m		0	2	4
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm		0	2	2	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	62	60
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	936	870	863
Calcium	ppm		1070	1076	1036	1009
Phosphorus	ppm	ASTM D5185m	1150	995	1031	907
Zinc	ppm	ASTM D5185m	1270	1297	1175	1171
Sulfur						
	ppm	ASTM D5185m	2060	3516	2931	2867
CONTAMINAN	TS	method	limit/base	current	history1	history2
CONTAMINAN Silicon	TS ppm	method ASTM D5185m		current 4	history1	history2
CONTAMINAN Silicon Sodium	TS ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 4 4	history1 6 7	history2 6 4
CONTAMINAN Silicon Sodium Potassium	TS ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20	current 4 4 2	history1 6 7 3	history2 6 4 3
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 4 4 2 current	history1 6 7 3 history1	history2 6 4 3 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 4 4 2 current 1	history1 6 7 3 history1 0.8	history2 6 4 3 history2 0.9
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 4 4 2 current 1 10.5	history1 6 7 3 history1 0.8 9.8	history2 6 4 3 history2 0.9 8.9
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 4 4 2 current 1	history1 6 7 3 history1 0.8	history2 6 4 3 history2 0.9
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 4 4 2 current 1 10.5	history1 6 7 3 history1 0.8 9.8	history2 6 4 3 history2 0.9 8.9
CONTAMINAN 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 4 4 2 current 1 10.5 22.0	history1 6 7 3 history1 0.8 9.8 20.5	history2 6 4 3 history2 0.9 8.9 21.4

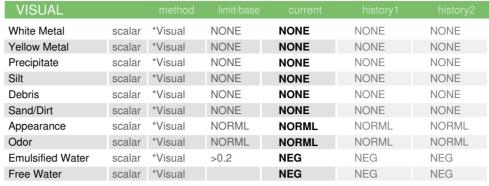


OIL ANALYSIS REPORT



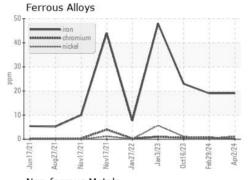


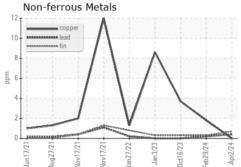


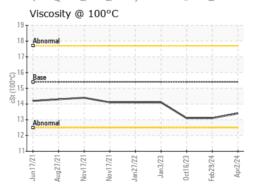


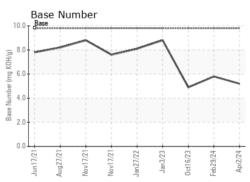
FLUID PROP	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.1	13.1

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0117731 Lab Number : 06146398 Unique Number : 10976476 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Apr 2024 **Tested** : 12 Apr 2024 Diagnosed

: 12 Apr 2024 - Wes Davis

GFL Environmental - 415 - Michigan East 6200 Elmridge Sterling Heights, MI US 48313 Contact: Frank Wolak fwolak@gflenv.com

 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) T: (586)825-9514