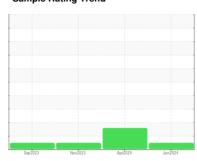


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
727135
Component
Diesel Engine

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

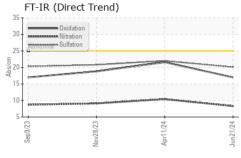
Fluid Condition

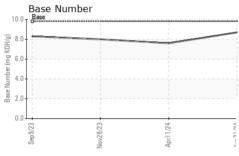
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

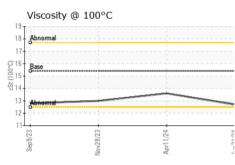
CAMPLE INFORM	AATION	motherd	limit/h-a-r-	Ol will and	biełowa	biotow.0
SAMPLE INFORM	MATION		limit/base	current	history1	history2
Sample Number		Client Info		GFL0111198	GFL0111254	GFL0087958
Sample Date		Client Info		21 Jun 2024	11 Apr 2024	28 Nov 2023
Machine Age	hrs	Client Info		39195	39195	39195
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	18	36	24
Chromium	ppm	ASTM D5185m	>20	1	3	2
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	1	1
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	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	0	2
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	60	60	64	60
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	1058	1045	1011
Calcium						1011
	ppm	ASTM D5185m	1070	1255	1217	1152
Phosphorus	ppm	ASTM D5185m ASTM D5185m	1070 1150	1255 1135		
					1217	1152
Zinc	ppm	ASTM D5185m	1150	1135	1217 1065	1152 1021
Zinc	ppm ppm	ASTM D5185m ASTM D5185m	1150 1270	1135 1396	1217 1065 1290	1152 1021 1311
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1150 1270 2060	1135 1396 3889	1217 1065 1290 3342	1152 1021 1311 2924
Zinc Sulfur CONTAMINAN ^T Silicon	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	1150 1270 2060 limit/base	1135 1396 3889 current	1217 1065 1290 3342 history1	1152 1021 1311 2924 history2
Zinc Sulfur CONTAMINAN ^T Silicon Sodium	ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	1150 1270 2060 limit/base >25	1135 1396 3889 current	1217 1065 1290 3342 history1	1152 1021 1311 2924 history2
Zinc Sulfur CONTAMINAN ^T Silicon Sodium	ppm ppm ppm TS ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	1150 1270 2060 limit/base >25	1135 1396 3889 current 11	1217 1065 1290 3342 history1	1152 1021 1311 2924 history2 6
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm TS ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	1150 1270 2060 limit/base >25 >20	1135 1396 3889 current 11 2	1217 1065 1290 3342 history1	1152 1021 1311 2924 history2 6 2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	1150 1270 2060 limit/base >25 >20 limit/base >3	1135 1396 3889 current 11 2 0	1217 1065 1290 3342 history1 25 2 0	1152 1021 1311 2924 history2 6 2 0
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D5185m	1150 1270 2060 limit/base >25 >20 limit/base >3 >20	1135 1396 3889 current 11 2 0 current 0.3	1217 1065 1290 3342 history1 25 2 0 history1	1152 1021 1311 2924 history2 6 2 0 history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm TS ppm ppm ppm ppm Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	1150 1270 2060 limit/base >25 >20 limit/base >3 >20	1135 1396 3889 current 11 2 0 current 0.3 8.3	1217 1065 1290 3342 history1 25 2 0 history1 0.4 10.4	1152 1021 1311 2924 history2 6 2 0 history2 0.4 9.1
CONTAMINANT Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm TS ppm ppm ppm ppm Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	1150 1270 2060 limit/base >25 >20 limit/base >3 >20 >30	1135 1396 3889 current 11 2 0 current 0.3 8.3 20.1	1217 1065 1290 3342 history1 25 2 0 history1 0.4 10.4 22.0	1152 1021 1311 2924 history2 6 2 0 history2 0.4 9.1 20.8

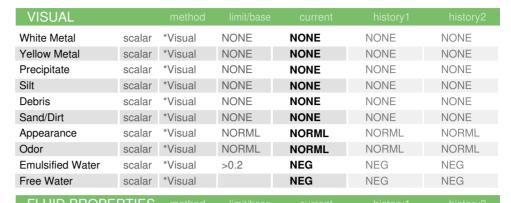


OIL ANALYSIS REPORT



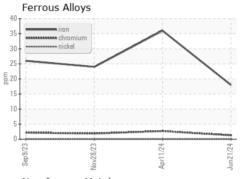


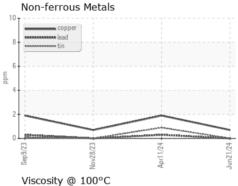


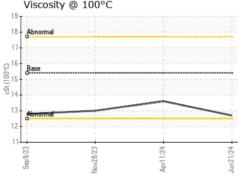


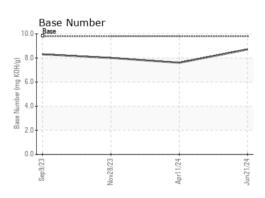
FLUID PROPE		method			riistory i	History
Visc @ 100°C	cSt	ASTM D445	15.4	12.7	13.6	13.0

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0111198 Lab Number : 06224301 Unique Number : 11102498

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Jul 2024

Tested : 02 Jul 2024 Diagnosed : 02 Jul 2024 - Wes Davis

GFL Environmental - 960B - Pittsfield HC

1335 W. Washington Pittsfield, IL US 62363

Contact: David Bradshaw david.bradshaw@gflenv.com T:

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)

F: