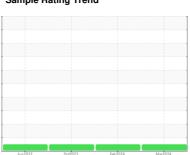


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id 629M Component **Diesel Engine**

PETRO CANADA DURO

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

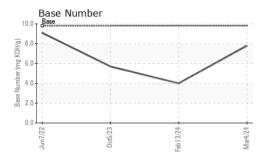
Fluid Condition

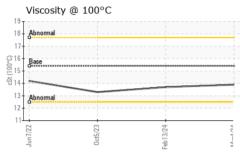
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N SHP 15W40 (- GAL)	Jun202	2 Oct2023	Feb 2024 M	ar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104321	GFL0110154	GFL008493
Sample Date		Client Info		04 Mar 2024	13 Feb 2024	05 Oct 2023
Machine Age	hrs	Client Info		12250	12250	12245
Dil Age	hrs	Client Info		600	600	12245
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
-uel		WC Method	>3.0	<1.0	<1.0	<1.0
Nater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	5	19	18
Chromium	ppm	ASTM D5185m	>20	0	<1	1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	1	2	13
Lead	ppm	ASTM D5185m	>40	0	2	0
Copper	ppm	ASTM D5185m	>330	2	2	11
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	1	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	59	56
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	900	918	886
Calcium	ppm	ASTM D5185m	1070	969	1045	965
Phosphorus	ppm	ASTM D5185m	1150	977	968	960
Zinc	ppm	ASTM D5185m	1270	1165	1240	1216
Sulfur	ppm	ASTM D5185m	2060	2765	2558	2505
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	4
Sodium	ppm	ASTM D5185m		2	5	11
Potassium	ppm	ASTM D5185m	>20	0	<1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.7	0.5
Vitration	Abs/cm	*ASTM D7624	>20	6.4	10.6	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	24.0	20.9
FLUID DECDAR	ΛΑΤΙΩΝ	method	limit/base	current	history1	history2
FLUID DEGRAD	ATION			Carront		· · · · · · · · · · · · · · · · · · ·
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	19.1	16.1



OIL ANALYSIS REPORT



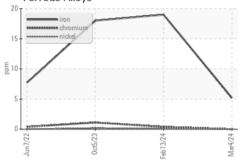


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

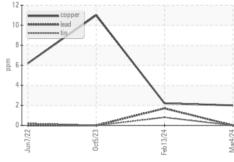
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.7	13.3

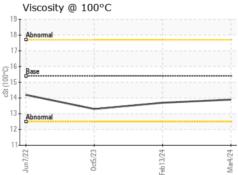
GRAPHS

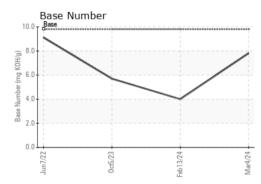
Ferrous Alloys















Laboratory Sample No.

Lab Number : 06109914 Unique Number : 10913411

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0104321

Received **Tested** Diagnosed Test Package : FLEET

: 07 Mar 2024 : 07 Mar 2024 - Wes Davis

: 06 Mar 2024

GFL Environmental - 410 - Michigan West

39000 Van Born Rd Wayne, MI US 48184

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

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)