

OIL ANALYSIS REPORT

Sample Rating Trend



428033-402325 Component

Diesel Engine Fluid

Machine Ic

PETRO CANADA DURO

SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0095182	GFL0095118	GFL0090683
Sample Date		Client Info		07 Nov 2023	06 Oct 2023	13 Sep 2023
Machine Age	hrs	Client Info		2308	2102	1935
Oil Age	hrs	Client Info		0	0	600
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	8	5	57
Chromium	ppm	ASTM D5185m		<1	0	2
Nickel	ppm	ASTM D5185m	>5	<1	0	2
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	2	8
_ead	ppm	ASTM D5185m	>40	<1	0	2
Copper	ppm	ASTM D5185m	>330	3	<1	2
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	6	4
Barium	ppm	ASTM D5185m	0	0	0	0
Volybdenum	ppm	ASTM D5185m	60	56	59	80
Vanganese	ppm	ASTM D5185m		<1	<1	<1
Vagnesium	ppm	ASTM D5185m	1010	930	956	1299
Calcium	ppm	ASTM D5185m	1070	999	1065	1439
Phosphorus	ppm	ASTM D5185m	1150	1047	996	1345
Zinc	ppm	ASTM D5185m	1270	1290	1228	1720
Sulfur	ppm	ASTM D5185m		3128	3123	3712
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	17
Sodium	ppm	ASTM D5185m		1	3	61
Potassium	ppm	ASTM D5185m	>20	1	1	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.2	0.8
Nitration	Abs/cm	*ASTM D7624	>20	7.1	5.0	12.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	17.8	23.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	13.4	21.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	9.1	6.0

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.



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scalar

scalar

*Visual

*Visual

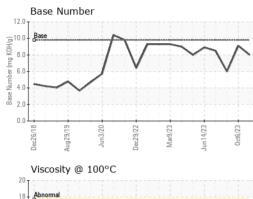
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NONE

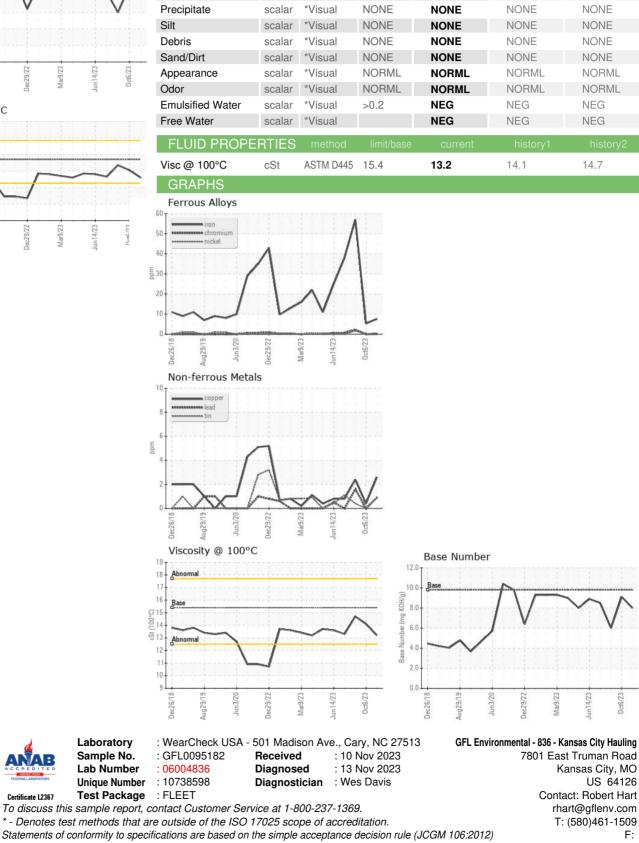
VISUAL

White Metal

Yellow Metal



1113/20



Contact/Location: See also GFL823, 834, 837, 840 - Robert Hart - GFL836

NONE

NONE

NONE

NONE

NONE

NONE