

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 412064

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.

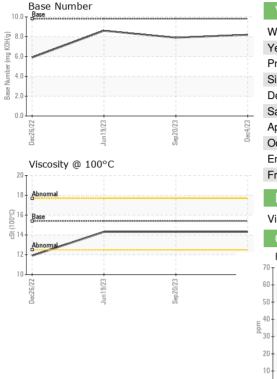
Fluid Condition

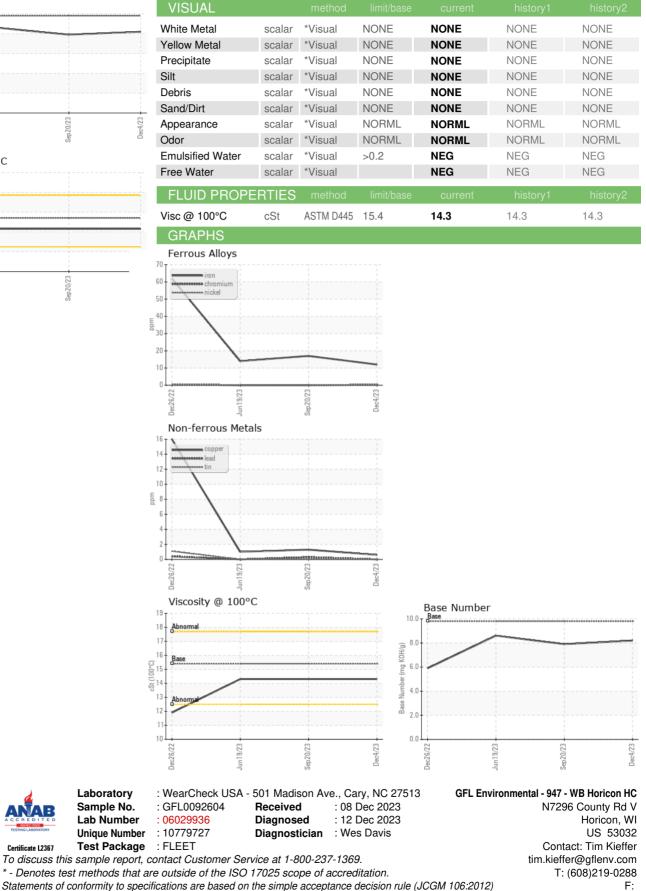
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Dve2022 Jun2023 Svp2023 Dve2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092604	GFL0082511	GFL0082526
Sample Date		Client Info		04 Dec 2023	20 Sep 2023	19 Jun 2023
Machine Age	hrs	Client Info		2631	2199	3745
Oil Age	hrs	Client Info		612	602	602
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	12	17	14
Chromium	ppm	ASTM D5185m	>4	<1	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	7	8	11
Lead	ppm	ASTM D5185m	>45	0	<1	0
Copper	ppm	ASTM D5185m	>85	<1	1	1
Tin	ppm	ASTM D5185m	>4	0	0	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	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	4
Molybdenum	ppm	ASTM D5185m	60	63	61	54
Manganese	ppm		0	0	<1	0
Magnesium	ppm	ASTM D5185m	1010	1006	1062	864
Calcium	ppm	ASTM D5185m	1070	1089	1172	943
Phosphorus	ppm	ASTM D5185m	1150	1015	1111	897
Zinc	ppm	ASTM D5185m	1270	1307	1386	1126
Sulfur	ppm	ASTM D5185m	2060	3062	4007	3185
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	7	7	4
Sodium	ppm	ASTM D5185m		3	6	1
Potassium	ppm	ASTM D5185m	>20	15	36	23
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.2
		*ASTM D7624	>20	7.9	8.2	7.3
Nitration	Ahe/cm			1.5	0.2	1.0
Nitration Sulfation	Abs/cm Abs/.1mm				18.8	19.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	18.8	19.4
Sulfation FLUID DEGRA	Abs/.1mm	*ASTM D7415 method	>30 limit/base	18.9 current	history1	history2
Sulfation FLUID DEGRAD Oxidation	Abs/.1mm DATION Abs/.1mm	*ASTM D7415 method *ASTM D7414	>30 limit/base >25	18.9 current 15.3	history1 15.5	history2 16.3
Sulfation	Abs/.1mm	*ASTM D7415 method	>30 limit/base	18.9 current	history1	history2



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Submitted By: See also GFL935 - Tim Kieffer