

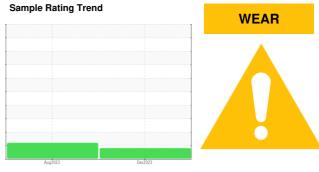
OIL ANALYSIS REPORT

(TS56944) S0916A-Suamico

Component

Front Center Diesel Engine

PETRO CANADA DURON SHP 15W40 (44 QTS)



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The copper level has decreased, but is still abnormal. All other component wear rates are normal

Contamination

There is no indication of any contamination in the oil

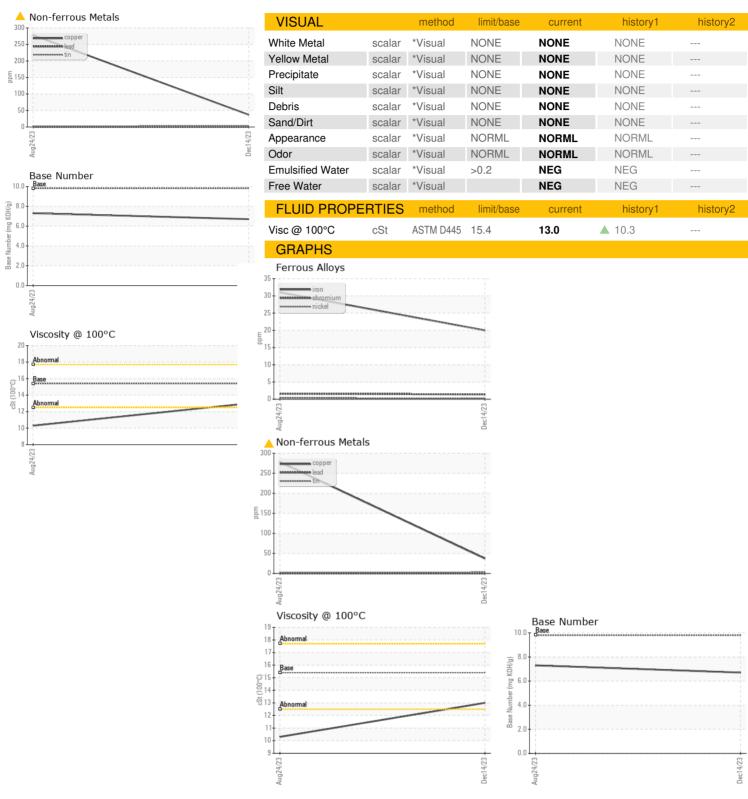
Fluid Condition

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

QTS)			Aug ² 023	Dec2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0095952	GFL0074833	
Sample Date		Client Info		14 Dec 2023	24 Aug 2023	
Machine Age	hrs	Client Info		1218	602	
Oil Age	hrs	Client Info		616	602	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.2	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	20	31	
Chromium	ppm	ASTM D5185m	>20	1	2	
Nickel	ppm	ASTM D5185m	>2	<1	<1	
Titanium	ppm	ASTM D5185m	>2	0	0	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m	>30	11	20	
Lead	ppm	ASTM D5185m	>30	0	0	
Copper	ppm	ASTM D5185m	>30	<u> </u>	<u>▲</u> 278	
Tin	ppm	ASTM D5185m	>15	3	2	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	30	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	58	45	
Manganese	ppm	ASTM D5185m	0	<1	3	
Magnesium	ppm	ASTM D5185m	1010	876	564	
Calcium	ppm	ASTM D5185m	1070	1234	1807	
Phosphorus	ppm	ASTM D5185m	1150	906	712	
Zinc	ppm	ASTM D5185m	1270	1151	890	
Sulfur	ppm	ASTM D5185m	2060	2056	2275	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	8	13	
Sodium	ppm	ASTM D5185m		1	5	
Potassium	ppm	ASTM D5185m	>20	30	45	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	9.3	10.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	22.8	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	24.0	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.7	7.3	



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Laboratory Sample No. Lab Number Unique Number Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0095952 : 06044432 : 10805040

: 26 Dec 2023 Recieved Diagnosed : 27 Dec 2023 : Don Baldridge Diagnostician

GFL Environmental - 916A - Suamico

2300 Deerfield Ave E Suamico, WI US 54313

Contact: NICHOLAS WEIDNER

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* - 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)

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