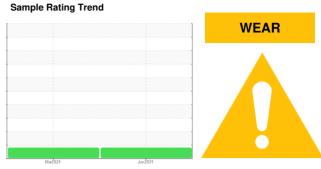


OIL ANALYSIS REPORT

(72604Z) Walgreens - Tractor [Walgreens - Tractor] 136A624302

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 GAL)



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 is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

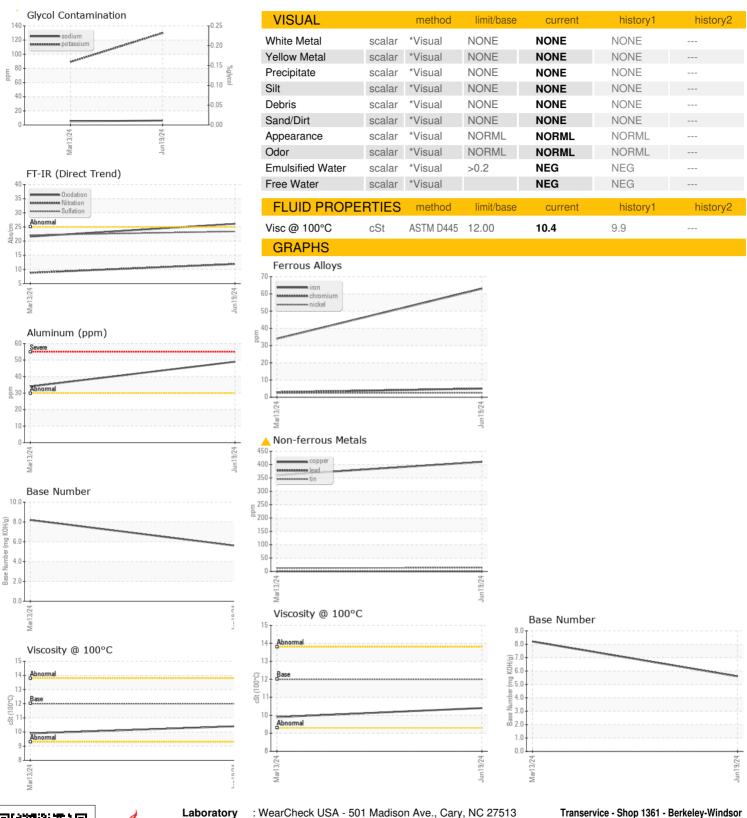
Fluid Condition

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.

GAL)			Mar2024	Jun2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0119080	PCA0105926	
Sample Date		Client Info		19 Jun 2024	13 Mar 2024	
Machine Age	hrs	Client Info		57767	25965	
Oil Age	hrs	Client Info		57767	25965	
Oil Changed		Client Info		Changed	N/A	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
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	>80	63	34	
Chromium	ppm	ASTM D5185m	>5	5	3	
Nickel	ppm	ASTM D5185m	>2	2	2	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m	>30	49	34	
Lead	ppm	ASTM D5185m	>30	0	<1	
Copper	ppm	ASTM D5185m	>150	<u>410</u>	<u></u> 360	
Tin	ppm	ASTM D5185m	>5	14	12	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	30	57	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	50	55	54	
Manganese	ppm	ASTM D5185m	0	7	5	
Magnesium	ppm	ASTM D5185m	950	597	552	
Calcium	ppm	ASTM D5185m	1050	1807	1695	
Phosphorus	ppm	ASTM D5185m	995	761	776	
Zinc	ppm	ASTM D5185m	1180	931	911	
Sulfur	ppm	ASTM D5185m	2600	2180	2459	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	9	7	
Sodium	ppm	ASTM D5185m		6	5	
Potassium	ppm	ASTM D5185m	>20	130	89	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	8.0	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	11.9	8.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	22.1	
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.1	21.6	
Base Number (BN)	mg KOH/g	ASTM D2896		5.6	8.2	



OIL ANALYSIS REPORT





Certificate 12367

Sample No.

Laboratory Lab Number : 06216719

Unique Number : 11089583 Test Package : FLEET

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

: PCA0119080

Tested Diagnosed

Received : 21 Jun 2024 : 24 Jun 2024 : 24 Jun 2024 - Don Baldridge

4400 State Road 19 Windsor, WI US 53598

Contact: Mike Hurda mhurda@transervice.com T: (608)846-2726

 st - 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: (608)846-0389 Submitted By: Mike Hurda