

OIL ANALYSIS REPORT

(69965Z) Walgreens - Tractor [Walgreens - Tractor] 136A62 omponen

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.

A Wear

The copper level is abnormal. Elemental level of copper (Cu) probably due to leaching of copper from copper components (i.e. cooling core) by the oil additives. All other metal levels are typical for a new component breaking in.

Contamination

Elevated aluminum (AI) 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.

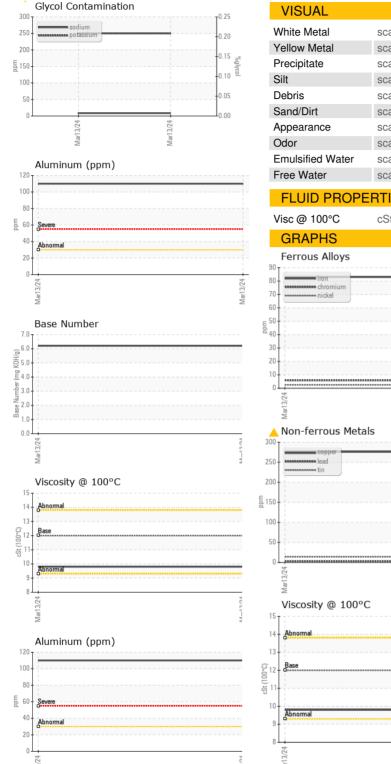
SIS REPUR		11			WEAR	
~ ¹						
or						
624251						
AL)				Mar2024		
SAMPLE INFOR		method			historyd	history
			limit/base	current	history1	history2
Sample Number		Client Info		PCA0106553		
Sample Date	mala	Client Info		13 Mar 2024		
Machine Age	mls	Client Info Client Info		48408 50000		
Dil Age	mls	Client Info				
Dil Changed Sample Status		Cilent Inio		Changed ABNORMAL		
· · · ·				ABNORMAL		
CONTAMINAT	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Nater		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>80	83		
Chromium	ppm	ASTM D5185m	>5	6		
Nickel	ppm	ASTM D5185m	>2	2		
Fitanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>30	110		
ead	ppm	ASTM D5185m	>30	3		
Copper	ppm	ASTM D5185m	>150	A 276		
Tin	ppm	ASTM D5185m	>5	14		
/anadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	26		
Barium	ppm	ASTM D5185m	0	<1		
/lolybdenum	ppm	ASTM D5185m	50	43		
Manganese	ppm	ASTM D5185m	0	5		
Magnesium	ppm	ASTM D5185m	950	526		
Calcium	ppm	ASTM D5185m	1050	1728		
Phosphorus	ppm	ASTM D5185m	995	691		
linc	ppm	ASTM D5185m	1180	816		
Sulfur	ppm	ASTM D5185m	2600	1955		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	9		
Sodium	ppm	ASTM D5185m		8		
Potassium	ppm	ASTM D5185m	>20	250		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5		
Nitration	% Abs/cm	*ASTM D7844 *ASTM D7624	>3 >20	0.5 10.9		
Sulfation	Abs/cm Abs/.1mm	*ASTM D7624	>20	23.3		
FLUID DEGRA	DATION		limit/base	current	history1	history2
Dxidation	Abs/.1mm	*ASTM D7414	> 25	25.6		
Base Number (BN)	mg KOH/g	ASTM D2896	>20	6.2		

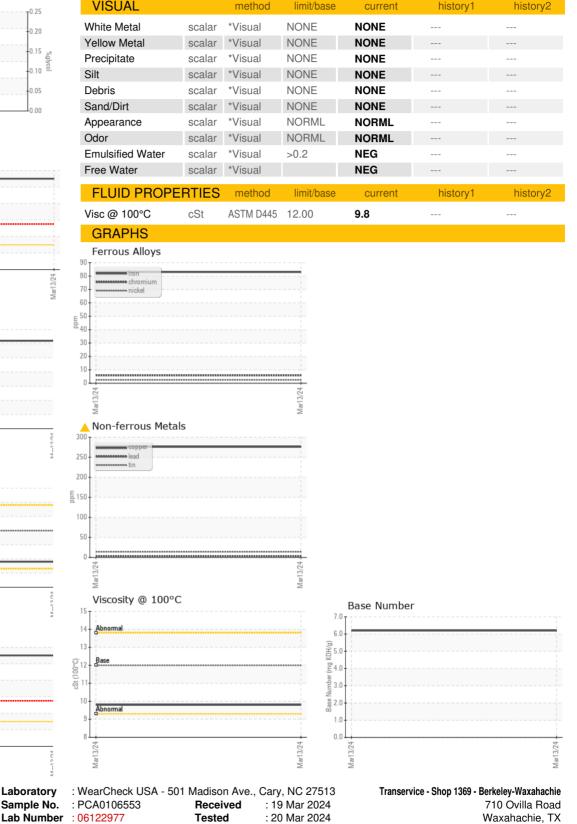
Sample Rating Trend

WEAR



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Waxahachie, TX : 21 Mar 2024 - Don Baldridge US 75167 Contact: Robert Beal rbeal@transervice.com T: (972)923-9928 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (972)923-9919

Certificate L2367

Laboratory

Sample No.

Unique Number : 10937128

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.

Test Package : FLEET

Diagnosed