

OIL ANALYSIS REPORT

Sample Number

mls

mls

Sample Date

Machine Age

Oil Changed

Oil Age

(55225Z) Walgreens - Tractor [Walgreens - Tractor] 136A63357 omponen

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

A Wear

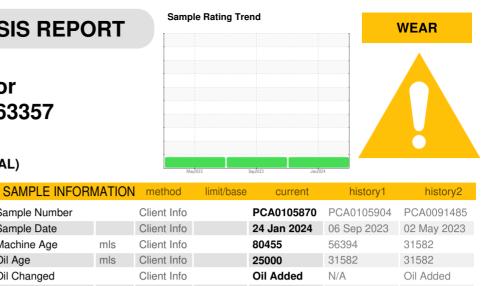
The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.

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. 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.



Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ON	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	>80	22	56	41
Chromium	ppm	ASTM D5185m	>5	2	4	2
Nickel	ppm	ASTM D5185m	>2	2	1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>30	24	63	52
Lead	ppm	ASTM D5185m	>30	<1	<1	2
Copper	ppm	ASTM D5185m	>150	<u> </u>	A 249	<u> </u>
Tin	ppm	ASTM D5185m	>5	2	4	2
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	3	30	42
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	57	43	45
Manganese	ppm	ASTM D5185m	0	2	4	3
Magnesium	ppm	ASTM D5185m	950	857	561	591
Calcium	ppm	ASTM D5185m	1050	1083	1726	1715
Phosphorus	ppm	ASTM D5185m	995	958	758	801
Zinc	ppm	ASTM D5185m	1180	1194	925	998
Sulfur	ppm	ASTM D5185m	2600	2712	2365	2570
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4	7	6
Sodium	ppm	ASTM D5185m		3	6	5
Potassium	ppm	ASTM D5185m	>20	56	153	132
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.8	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.0	10.5	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	23.0	23.2

limit/base

current

16.6

Oxidation

FLUID DEGRADATION method

Abs/.1mm *ASTM D7414 >25

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history2

23.0

8.4

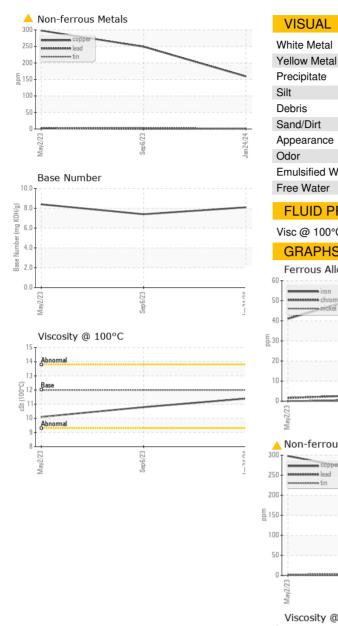
history1

24.4

7.4



OIL ANALYSIS REPORT



	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Sep6/23 Jan 24/24	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Jan 2	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
· · · · · · · · · · · · · · · · · · ·	Free Water	scalar	*Visual		NEG	NEG	NEG
	FLUID PROPE	RTIES	method	limit/base	current	history1	history2
	Visc @ 100°C	cSt	ASTM D445	12.00	11.4	10.79	10.1
	GRAPHS						
	Ferrous Alloys						
53	iron						
Sep6/23	50 - chromium						
1	40						
	Ē 30-						
1							
	20-						
	10-						
	May2/23	Sep6/23		Jan 24/24			
	S S	Sel		Jan			
	🔺 Non-ferrous Metal	S					
Sep 6/23	300 Copper-L						
89 1	250 - exercise lead						
	200 -						
	Earo			/			
	톱 150 -						
	100 -						
	50 -						
	2/23	Sep6/23 -		4/24 -			
	May2/23	Sep		Jan 24/24			
	Viscosity @ 100°C				Base Number		
	15			9.0			
	14 Abnormal	-		8.0			
	13			(B/H)			
	0 12 Base			(0,7.0 HOX 6.0 Jao du Jao du W 3.0 8 8 2.0	1		
	(2) 12 - Base 0 12 - Base 12 - Base 12 - Base						
				N 3.0			
	10-	1		e 2.0			
	Abnormal			1.0			
	Abnormal 9 -				1		
	8	23				53	
	8	sp6/23				ep 6/23 +	
	: WearCheck USA - 50			, NC 27513	May2/23	- EZ/geles ce - Shop 1361 - E	
Sample No.	: WearCheck USA - 50 ⁻ : PCA0105870	1 Madisc Rece	ived : 06	, NC 27513 Feb 2024	May2/23	e - Shop 1361 - E	State Road
Sample No. Lab Number	: WearCheck USA - 50" : PCA0105870 : 06081929	1 Madisc Rece Teste	ived : 06 ed : 07	, NC 27513	EZZZARM	e - Shop 1361 - E	State Road Windsor,
Sample No. Lab Number Unique Number	: WearCheck USA - 50" : PCA0105870 : 06081929 : 10869374	1 Madisc Rece Teste	ived : 06 ed : 07	, NC 27513 Feb 2024 Feb 2024	EZZZARM	:e - Shop 1361 - I 4400	
Sample No. Lab Number Unique Number	: WearCheck USA - 50" : PCA0105870 : 06081929 : 10869374 : FLEET	1 Madisc Rece Teste Diagr	ived : 06 ed : 07 nosed : 08	, NC 27513 5 Feb 2024 7 Feb 2024 Feb 2024 - Sea	EZZZARM	ce - Shop 1361 - I 4400 Conta	State Road Windsor, US 535

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