

#### [142229] Machine Id DORMAN PETER ST PS Component Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

#### RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Test

Sample Number

Sample Date

Machine Age

Oil Age

Filter Age

Oil Changed

Filter Changed

UOM

hrs

hrs

hrs

Method

Client Info

**Client Info** 

Client Info

Client Info

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Client Info

Client Info

WEAR	14/		Λ	
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Metal levels are typical for a new component breaking in.

### **CONTAMINATION**

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

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Sample Status				SEVERE	SEVERE	SEVERE
Iron	ppm	ASTM D5185(m)	>80	2	3	4
Chromium	ppm	ASTM D5185(m)	>6	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	1	1
Lead	ppm	ASTM D5185(m)	>95	0	1	<1
Copper	ppm	ASTM D5185(m)	>85	4	16	8
Tin	ppm	ASTM D5185(m)	>9	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	1	3	4
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
Fuel	%	ASTM D7593*	>4.0	<b>A</b> 28	46.2	▲ 27.7
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.8	7.4	7.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	14.1	14.1	17.0
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>158	<1	2	2
Boron	ppm	ASTM D5185(m)	250	4	31	43
Barium	ppm	ASTM D5185(m)	10	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	2	39	52
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	450	9	8	10
Calcium	ppm	ASTM D5185(m)	3000	1608	1097	1430
Phosphorus	ppm	ASTM D5185(m)	1150	614	<mark>▲</mark> 520	683
Zinc	ppm	ASTM D5185(m)	1350	684	▲ 525	744
Sulfur	ppm	ASTM D5185(m)	4250	2135	1644	2171
Oxidation	Abs/.1mm	ASTM D7414*	>25	7.8	9.1	10.5
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	6.55	4.00	5.80
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	6.9	▲ 0.9	▲ 6.2

## **FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Contact/Location: Debbie Johnston - GENCOM

# WEAR NORMAL CONTAMINATION SEVERE FLUID CONDITION SEVERE

Current

WC0919651

02 Apr 2024

Not Changd

Not Changd

138

0

0

History1

110

0

0

History2

WC0791191 WC0668179

17 Apr 2023 19 Apr 2022

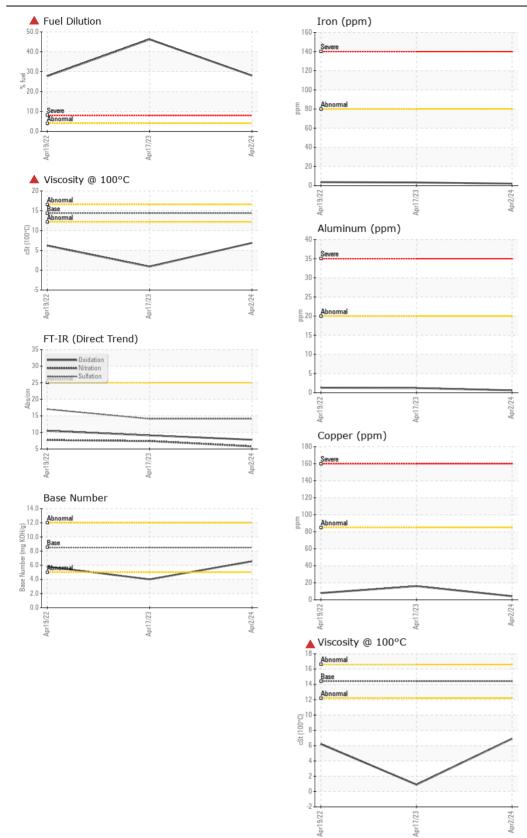
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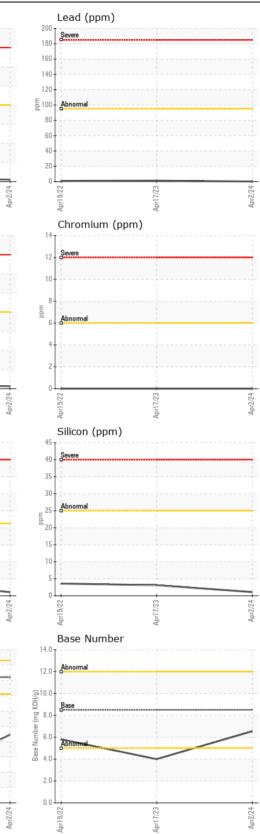
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Limit/Abn





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GENREP LTD** CALA Sample No. Received 476 HWY 77, R.R. # 3 : WC0919651 : 15 Apr 2024 Ľ. Lab Number : 02628681 Tested LEAMINGTON, ON : 16 Apr 2024 ISO 17025:2017 Accredited Diagnosed : 16 Apr 2024 - Wes Davis CA N8H 3V6 Unique Number : 5761813 Laboratory Test Package : MOB 2 (Additional Tests: PercentFuel) Contact: Debbie Johnston To discuss this sample report, contact Customer Service at 1-800-268-2131. djohnston@genrep.com T: (519)325-0202 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: (519)322-0026 Validity of results and interpretation are based on the sample and information as supplied.

Report Id: GENCOM [WCAMIS] 02628681 (Generated: 04/16/2024 09:32:40) Rev: 1

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