



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[142229]

Machine Id

DORMAN QUEENSTPS

Component

Diesel Engine

Fluid

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

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0919649	WC0498298	WC0449645
Sample Date		Client Info		02 Apr 2024	21 Apr 2021	30 Mar 2020
Machine Age	hrs	Client Info		186	620	108
Oil Age	hrs	Client Info		0	140	0
Filter Age	hrs	Client Info		0	140	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>80	10	8	6
Chromium	ppm	ASTM D5185(m)	>6	0	0	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<1	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	1
Lead	ppm	ASTM D5185(m)	>95	1	2	1
Copper	ppm	ASTM D5185(m)	>85	3	2	2
Tin	ppm	ASTM D5185(m)	>9	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

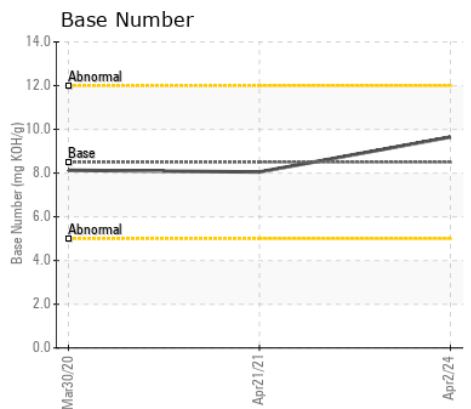
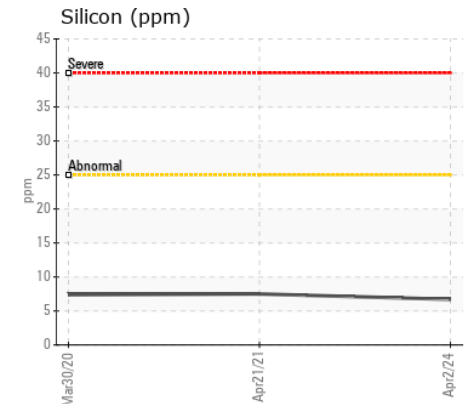
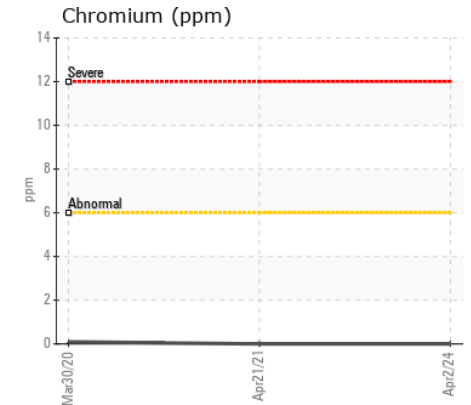
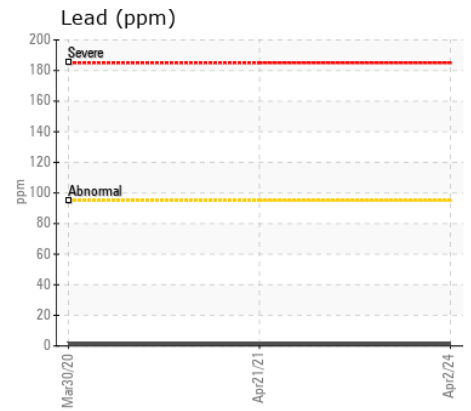
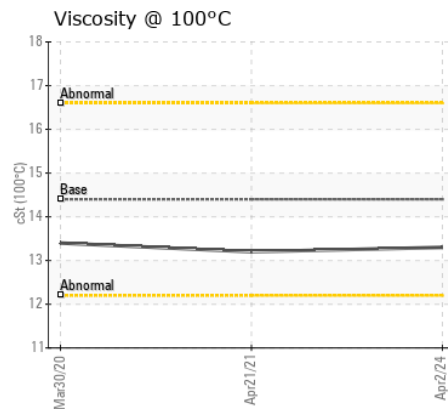
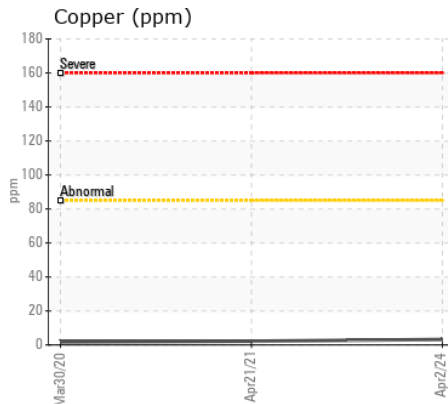
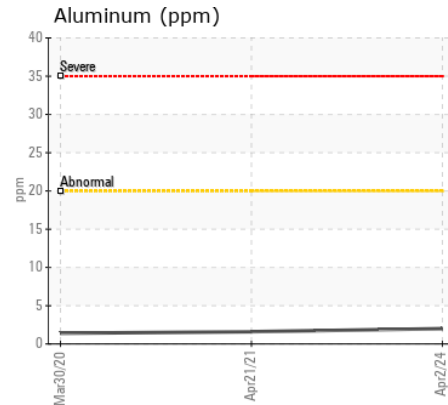
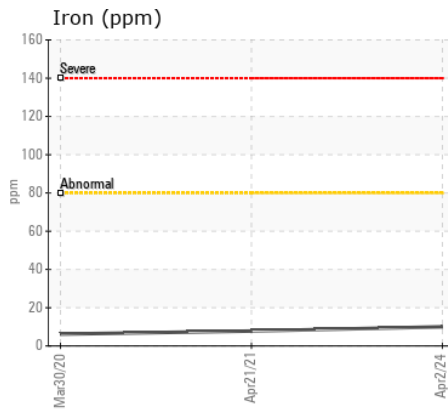
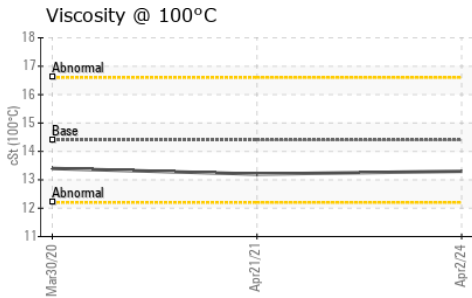
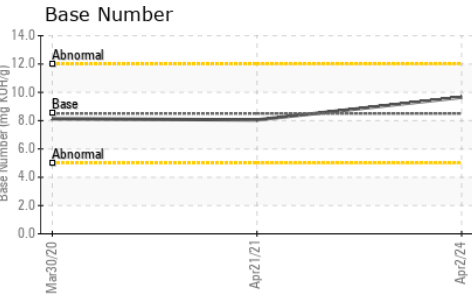
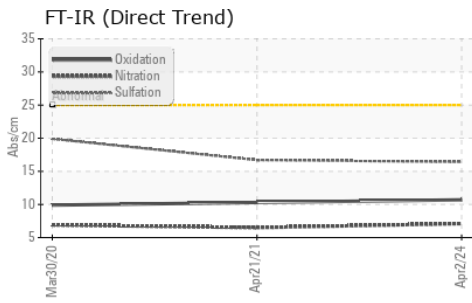
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	7	8	7
Potassium	ppm	ASTM D5185(m)	>20	4	4	4
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
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	7.1	6.5	6.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.4	16.7	19.9
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185(m)	>158	5	4	3
Boron	ppm	ASTM D5185(m)	250	12	13	15
Barium	ppm	ASTM D5185(m)	10	3	3	3
Molybdenum	ppm	ASTM D5185(m)	100	7	8	8
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	17	17	18
Calcium	ppm	ASTM D5185(m)	3000	2470	2400	2460
Phosphorus	ppm	ASTM D5185(m)	1150	856	871	921
Zinc	ppm	ASTM D5185(m)	1350	1001	1037	1036
Sulfur	ppm	ASTM D5185(m)	4250	3003	3264	3306
Oxidation	Abs/.1mm	ASTM D7414*	>25	10.7	10.3	9.9
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	9.65	8.05	8.13
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.3	13.2	13.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0919649 **Received** : 15 Apr 2024
Lab Number : 02628680 **Tested** : 16 Apr 2024
Unique Number : 5761812 **Diagnosed** : 16 Apr 2024 - Wes Davis
Test Package : MOB 2

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

GENREP LTD
 476 HWY 77, R.R. # 3
 LEAMINGTON, ON
 CA N8H 3V6
 Contact: Debbie Johnston
 djohnston@genrep.com
 T: (519)325-0202
 F: (519)322-0026