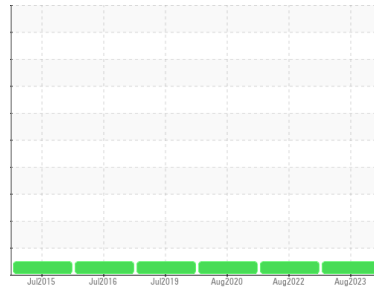




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**PERKINS/HARPER M0083**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (14 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0836813</b>	WC0709801	WC0442685
Sample Date	Client Info			<b>14 Aug 2023</b>	17 Aug 2022	19 Aug 2020
Machine Age	hrs	Client Info		<b>327</b>	322	311
Oil Age	hrs	Client Info		<b>12</b>	7	207
Oil Changed	Client Info			<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	<b>9</b>	6	5
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>40	<b>2</b>	2	1
Copper	ppm	ASTM D5185(m)	>330	<b>7</b>	6	5
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	<b>7</b>	7	8
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	<b>34</b>	35	44
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>539</b>	552	724
Calcium	ppm	ASTM D5185(m)	3000	<b>1553</b>	1459	1320
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1001</b>	891	994
Zinc	ppm	ASTM D5185(m)	1350	<b>1067</b>	1032	1146
Sulfur	ppm	ASTM D5185(m)	4250	<b>2858</b>	2804	2804
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

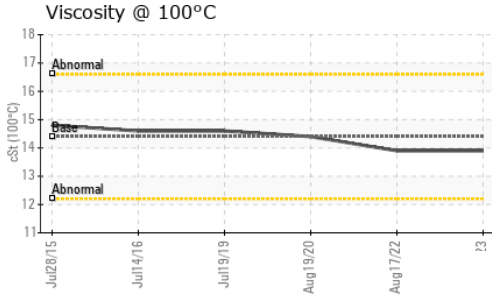
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	3	2
Sodium	ppm	ASTM D5185(m)	>158	<b>3</b>	2	1
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.5</b>	5.3	4.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.2</b>	16.4	15.8

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>11.9</b>	12.0	11.9



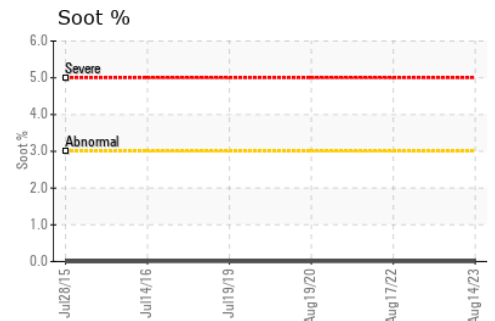
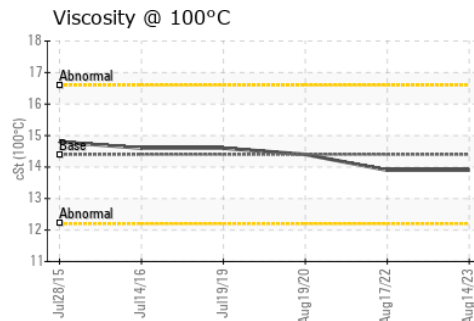
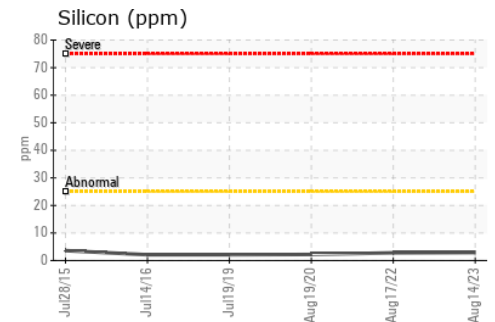
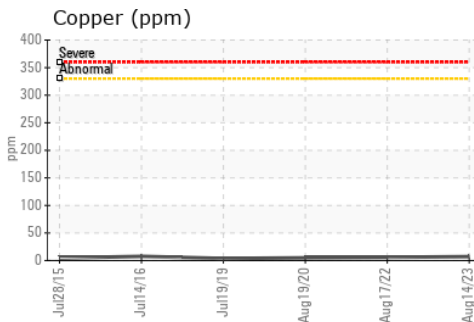
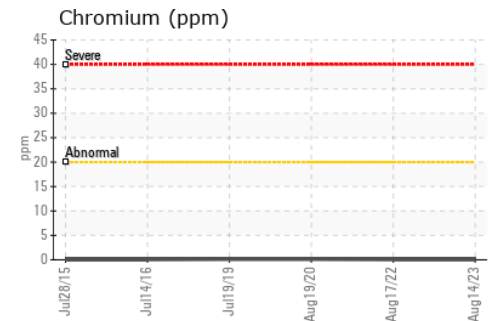
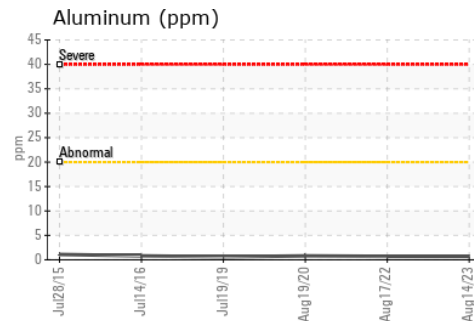
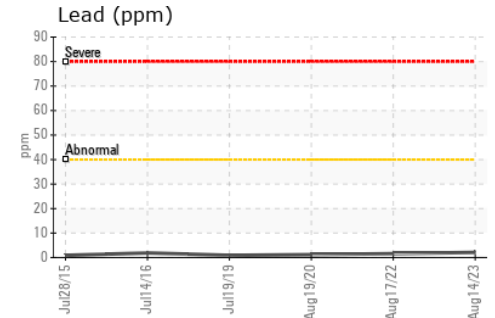
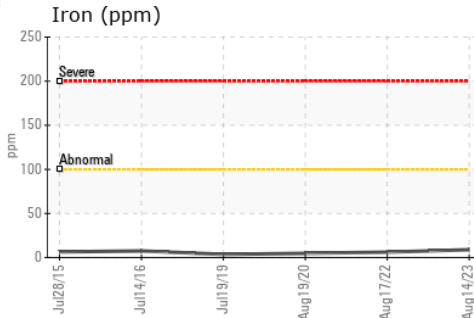
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.9	14.4

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0836813 **Received** : 05 Sep 2023  
**Lab Number** : 02580193 **Diagnosed** : 05 Sep 2023  
**Unique Number** : 5633253 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**GENCARE SERVICES LTD.**  
 360 SOVEREIGN ROAD  
 LONDON, ON  
 CA N6M 1A8  
 Contact: Teresa Matthews  
 tmatthews@gencare.com  
 T: (519)659-7118  
 F: (519)451-1707

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.