



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
460 COMSTOCK SCARBOROUGH NOVUM PHARMA NOVUM PHARMA
 Component
Right Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (7 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006263	PN0004810	---
Sample Date		Client Info		03 Jun 2024	01 Jun 2023	---
Machine Age	hrs	Client Info		405	380	---
Oil Age	hrs	Client Info		25	0	---
Filter Age	hrs	Client Info		25	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Not Chngd	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	2	3	---
Chromium	ppm	ASTM D5185(m)	>20	0	0	---
Nickel	ppm	ASTM D5185(m)	>4	0	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	---
Lead	ppm	ASTM D5185(m)	>40	0	1	---
Copper	ppm	ASTM D5185(m)	>330	7	8	---
Tin	ppm	ASTM D5185(m)	>15	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

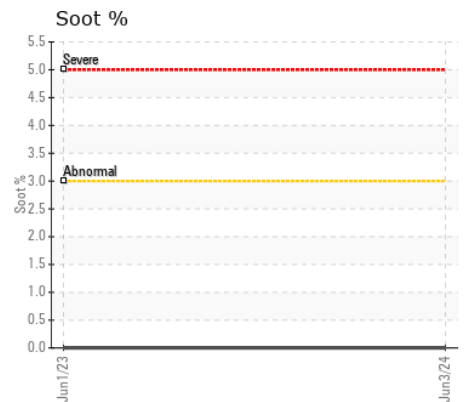
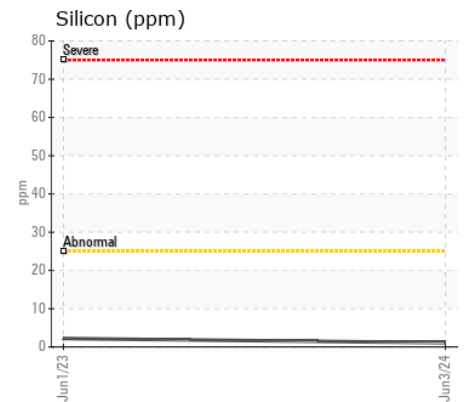
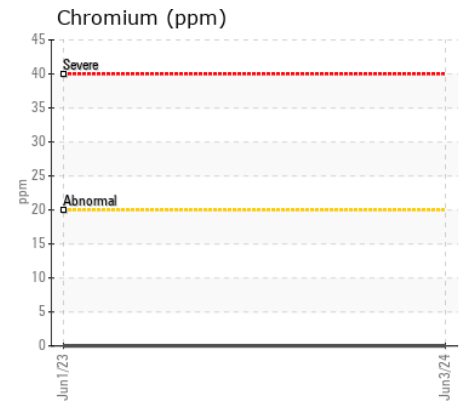
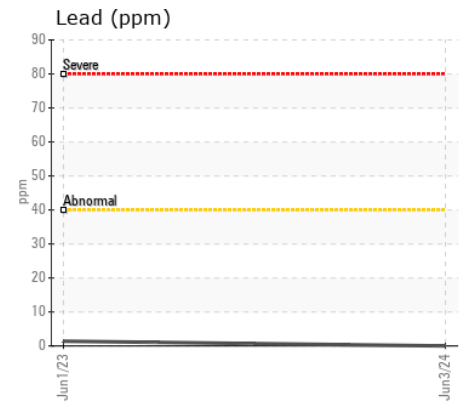
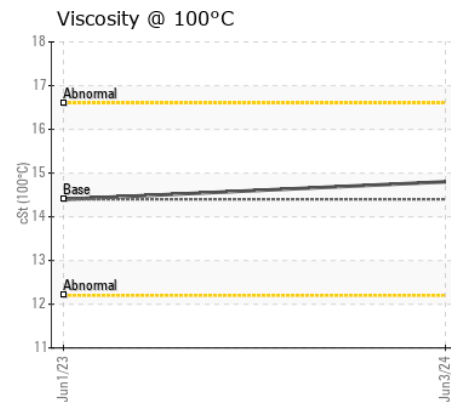
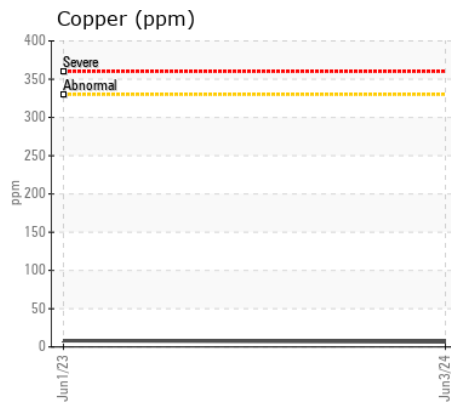
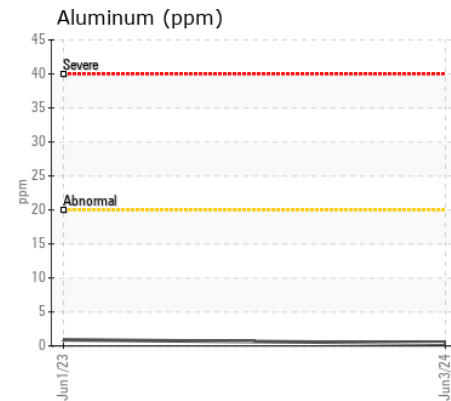
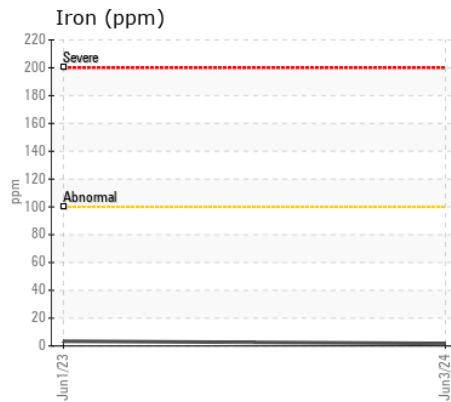
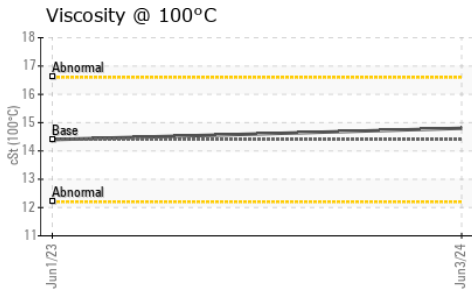
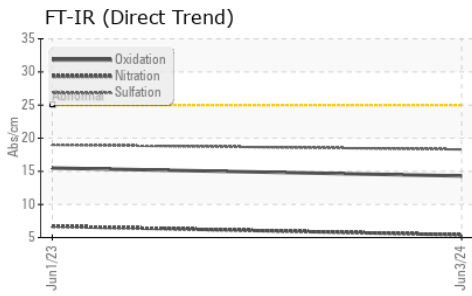
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	1	2	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	5.4	6.7	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.3	19.0	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>158	1	2	---
Boron	ppm	ASTM D5185(m)	250	2	3	---
Barium	ppm	ASTM D5185(m)	10	0	0	---
Molybdenum	ppm	ASTM D5185(m)	100	57	59	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)	450	960	938	---
Calcium	ppm	ASTM D5185(m)	3000	1047	1034	---
Phosphorus	ppm	ASTM D5185(m)	1150	1010	1070	---
Zinc	ppm	ASTM D5185(m)	1350	1176	1148	---
Sulfur	ppm	ASTM D5185(m)	4250	2611	2637	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.3	15.5	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.8	14.4	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006263 **Received** : 06 Jun 2024
Lab Number : 02640195 **Tested** : 06 Jun 2024
Unique Number : 5789357 **Diagnosed** : 06 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

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.

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