



LUBE PLUS+

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
HUNDAI LB-57
 Component
Diesel Engine
 Fluid
FLEETLINE SUPERFLEET XHD 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LP0001534	PCA0110047	---
Sample Date		Client Info		15 Jun 2024	29 Apr 2024	---
Machine Age	hrs	Client Info		575	265	---
Oil Age	hrs	Client Info		310	265	---
Filter Age	hrs	Client Info		310	265	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	2	7	---
Chromium	ppm	ASTM D5185m	>20	0	<1	---
Nickel	ppm	ASTM D5185m	>4	0	<1	---
Titanium	ppm	ASTM D5185m		2	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	2	4	---
Lead	ppm	ASTM D5185m	>40	1	4	---
Copper	ppm	ASTM D5185m	>330	2	14	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

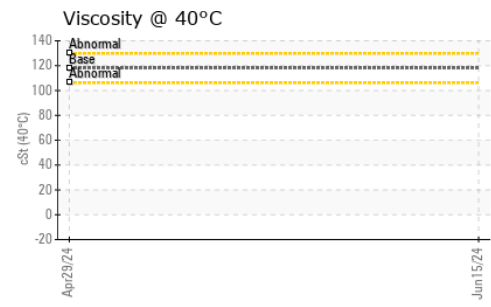
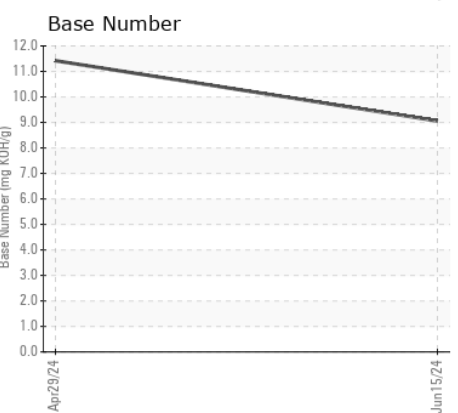
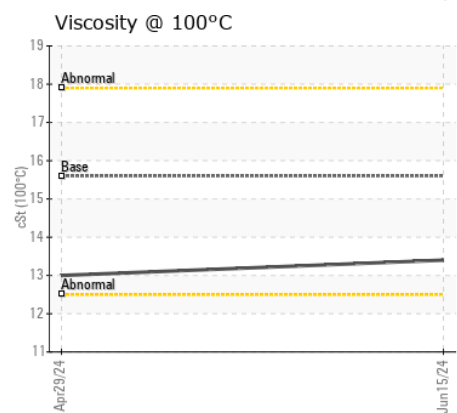
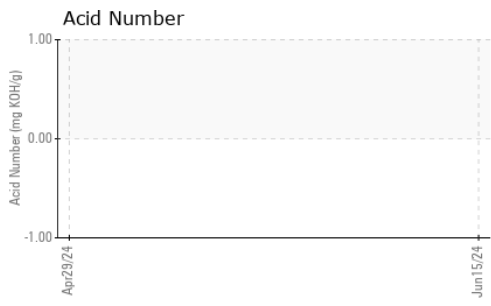
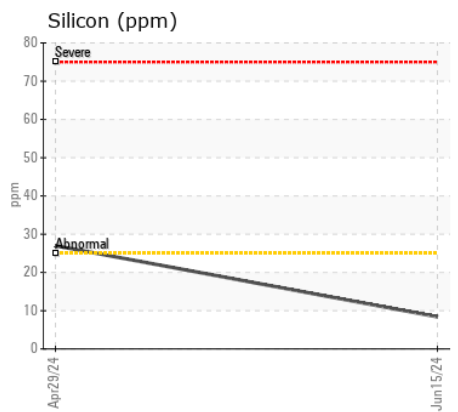
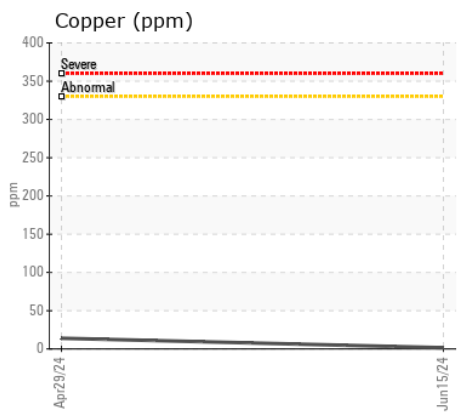
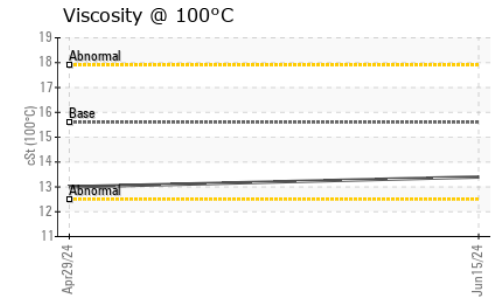
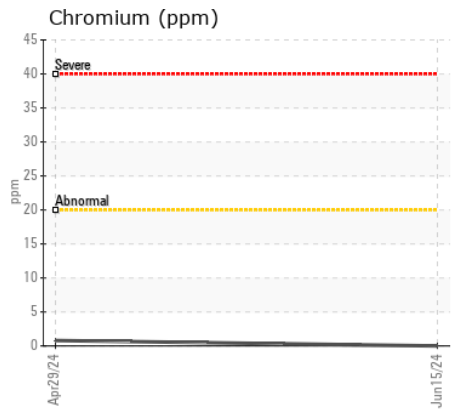
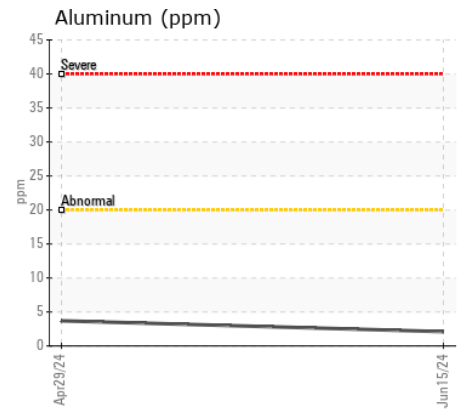
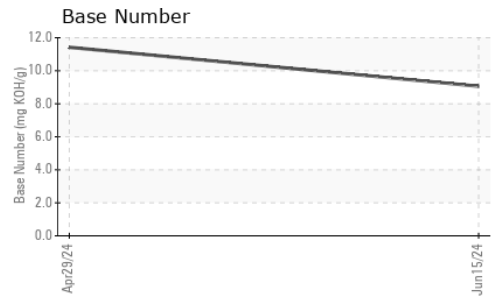
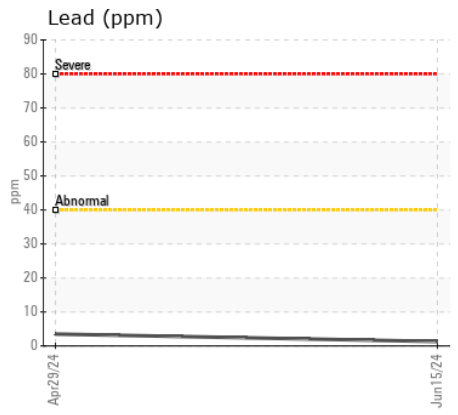
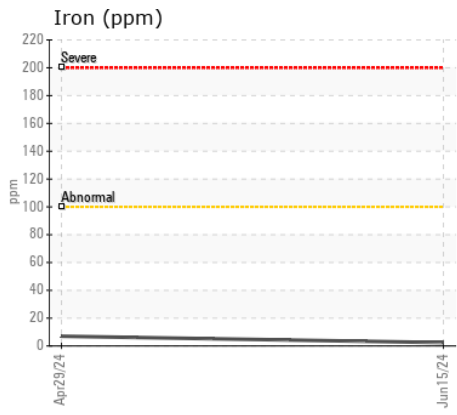
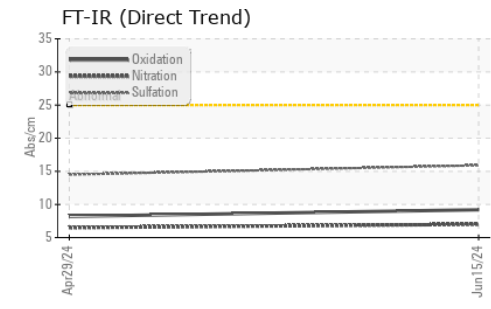
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	27	---
Potassium	ppm	ASTM D5185m	>20	3	6	---
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	7.0	6.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.9	14.5	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	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 D5185m		0	4	---
Boron	ppm	ASTM D5185m		17	75	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		9	35	---
Manganese	ppm	ASTM D5185m		<1	2	---
Magnesium	ppm	ASTM D5185m		77	58	---
Calcium	ppm	ASTM D5185m		2370	3531	---
Phosphorus	ppm	ASTM D5185m		916	922	---
Zinc	ppm	ASTM D5185m		1130	1040	---
Sulfur	ppm	ASTM D5185m		4230	3731	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.2	8.2	---
Base Number (BN)	mg KOH/g	ASTM D2896		9.06	11.42	---
Visc @ 100°C	cSt	ASTM D445	15.6	13.4	13.0	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LP0001534 **Received** : 28 Jun 2024
Lab Number : 06224098 **Tested** : 02 Jul 2024
Unique Number : 11102295 **Diagnosed** : 02 Jul 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: KV40, TAN Man)

LORUSSO BRISTOL STONE CORP
 611 PLEASANT ST
 WEYMOUTH, MA
 US 02189
 Contact: PAUL MOGAN
 lbstone611@comcast.net
 T: (781)331-5379
 F: (781)337-8274

To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)