



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
WDM 183 - INVERTRANS
Component
Diesel Engine
Fluid
MAXTER 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KLFK202193	---	---
Sample Date		Client Info		14 Jun 2024	---	---
Machine Age	hrs	Client Info		8553	---	---
Oil Age	hrs	Client Info		1030	---	---
Filter Age	hrs	Client Info		1030	---	---
Oil Changed		Client Info		Not Chngd	---	---
Filter Changed		Client Info		Not Chngd	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	19	---	---
Chromium	ppm	ASTM D5185m	>4	<1	---	---
Nickel	ppm	ASTM D5185m	>4	0	---	---
Titanium	ppm	ASTM D5185m	>2	<1	---	---
Silver	ppm	ASTM D5185m	>2	0	---	---
Aluminum	ppm	ASTM D5185m	>15	4	---	---
Lead	ppm	ASTM D5185m	>50	13	---	---
Copper	ppm	ASTM D5185m	>55	2	---	---
Tin	ppm	ASTM D5185m	>4	2	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

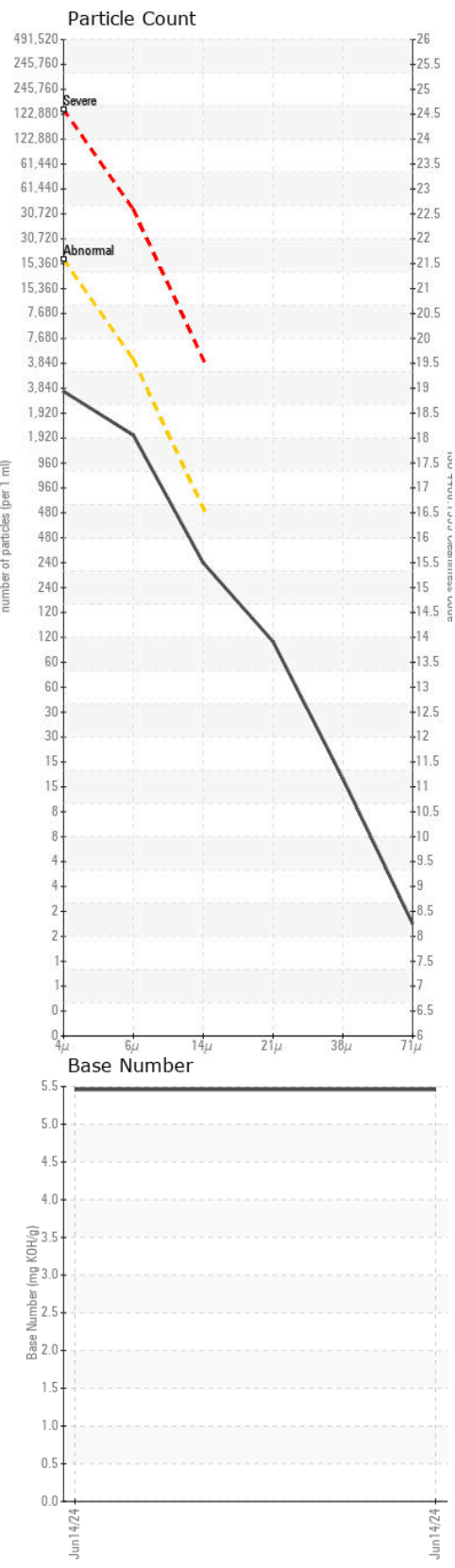
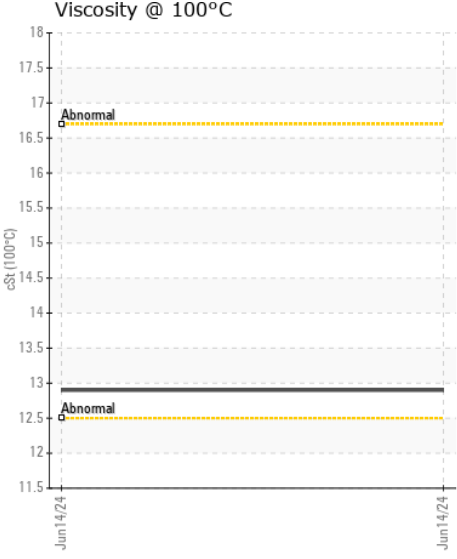
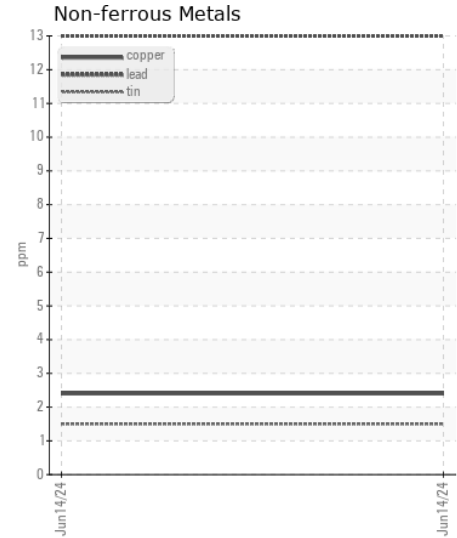
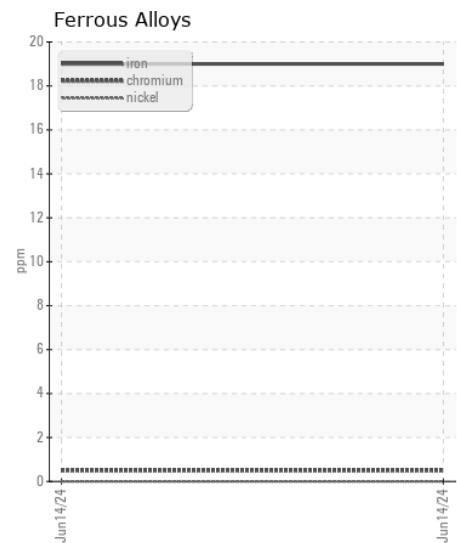
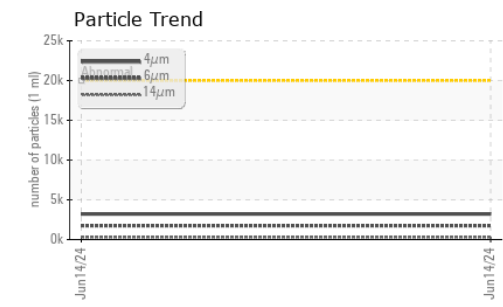
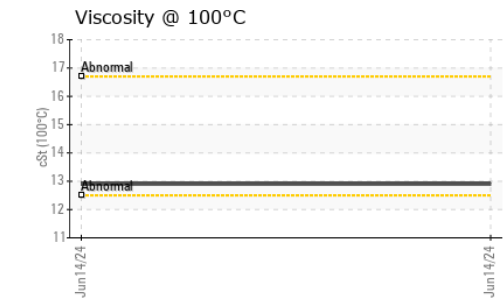
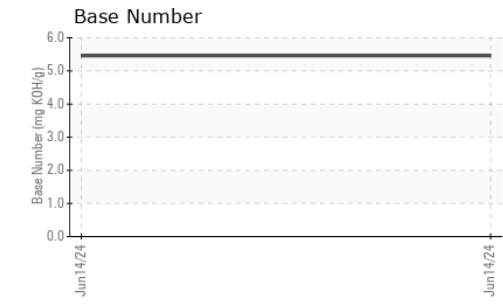
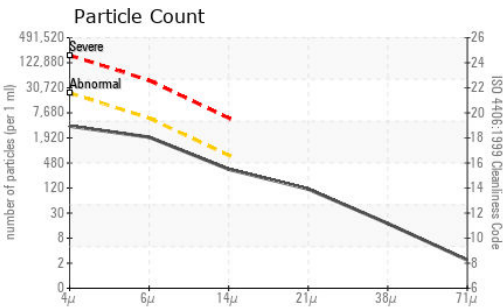
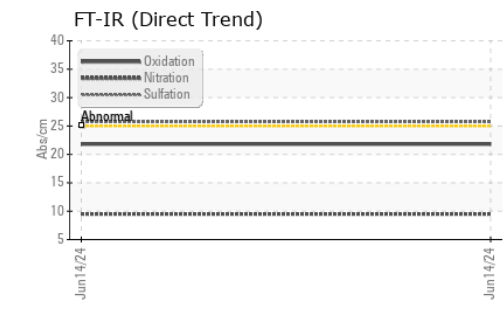
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>15	7	---	---
Potassium	ppm	ASTM D5185m	>20	4	---	---
Fuel		WC Method	>3.0	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844	>6	0.3	---	---
Nitration	Abs/cm	*ASTM D7624	>20	9.5	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.7	---	---
Particles >4µm		ASTM D7647	>20000	3210	---	---
Particles >6µm		ASTM D7647	>5000	1749	---	---
Particles >14µm		ASTM D7647	>640	298	---	---
Particles >21µm		ASTM D7647	>160	100	---	---
Particles >38µm		ASTM D7647	>40	15	---	---
Particles >71µm		ASTM D7647	>10	2	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/18/15	---	---
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	---	---
Emulsified Water	scalar	*Visual	>0.2	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		6	---	---
Boron	ppm	ASTM D5185m		38	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		8	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		686	---	---
Calcium	ppm	ASTM D5185m		1281	---	---
Phosphorus	ppm	ASTM D5185m		698	---	---
Zinc	ppm	ASTM D5185m		833	---	---
Sulfur	ppm	ASTM D5185m		2659	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.8	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		5.46	---	---
Visc @ 100°C	cSt	ASTM D445		12.9	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KLFK202193 **Received** : 16 Jul 2024
Lab Number : 06238571 **Tested** : 18 Jul 2024
Unique Number : 11127405 **Diagnosed** : 18 Jul 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: PrtCount)

KLENOIL MEXICO
 , ZZ
 MX
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 T:
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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)