NationaLease

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
SIDNEY CITY SCHOOLS
Machine Id
BLUE BIRD SCS3
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

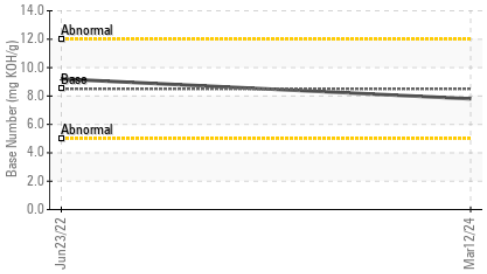
There is no indication of any contamination in the oil.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

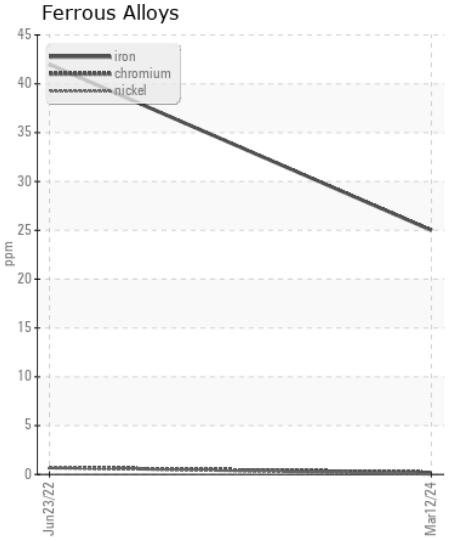
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		NL0001679	NL0000821	---
Sample Date		Client Info		12 Mar 2024	23 Jun 2022	---
Machine Age	mls	Client Info		69487	38374	---
Oil Age	mls	Client Info		7990	38374	---
Filter Age	mls	Client Info		7990	38374	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---
Iron	ppm	ASTM D5185m	>100	25	42	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	0	<1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	6	7	---
Lead	ppm	ASTM D5185m	>40	0	1	---
Copper	ppm	ASTM D5185m	>330	2	3	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	4	7	---
Potassium	ppm	ASTM D5185m	>20	10	27	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	9.3	8.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	19.5	---
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	---
Sodium	ppm	ASTM D5185m	>216	<1	3	---
Boron	ppm	ASTM D5185m	250	4	13	---
Barium	ppm	ASTM D5185m	10	0	0	---
Molybdenum	ppm	ASTM D5185m	100	59	61	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m	450	955	944	---
Calcium	ppm	ASTM D5185m	3000	1023	1116	---
Phosphorus	ppm	ASTM D5185m	1150	1044	1017	---
Zinc	ppm	ASTM D5185m	1350	1267	1288	---
Sulfur	ppm	ASTM D5185m	4250	3481	3117	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	15.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.8	9.2	---
Visc @ 100°C	cSt	ASTM D445	14.4	13.3	13.5	---

Base Number

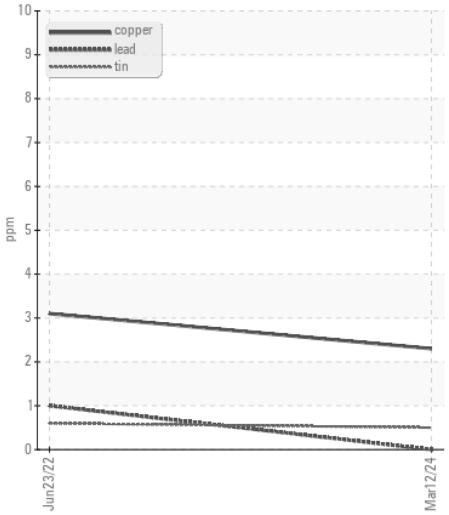


Viscosity @ 100°C

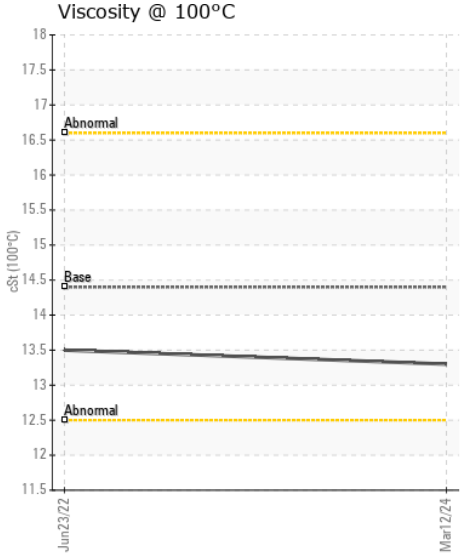
Ferrous Alloys



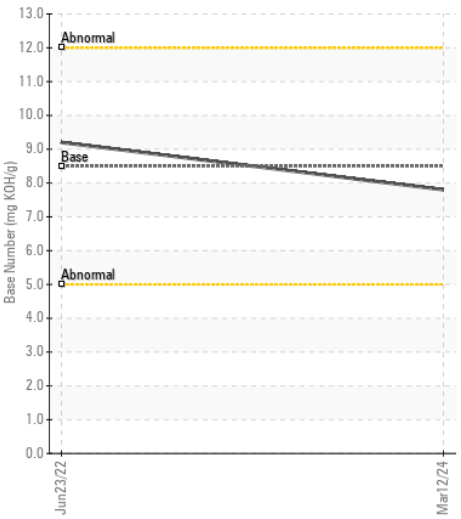
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : NL0001679
Lab Number : 06124241
Unique Number : 10938392
Test Package : FLEET

Received : 20 Mar 2024
Tested : 21 Mar 2024
Diagnosed : 21 Mar 2024 - Wes Davis

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)

KIRK NATIONALEASE - SHOP 2
3885 W MICHIGAN AVE
SIDNEY, OH
US 45365
Contact: KEN HEHR
shop02@knl.cc
T: (937)498-9280
F: (937)498-5836