



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
NAVISTAR 111310
Component
Diesel Engine
Fluid
SHELL ROTELLA T 15W40 (--- QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

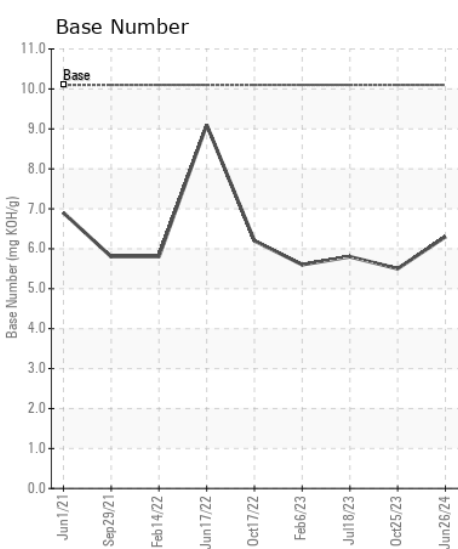
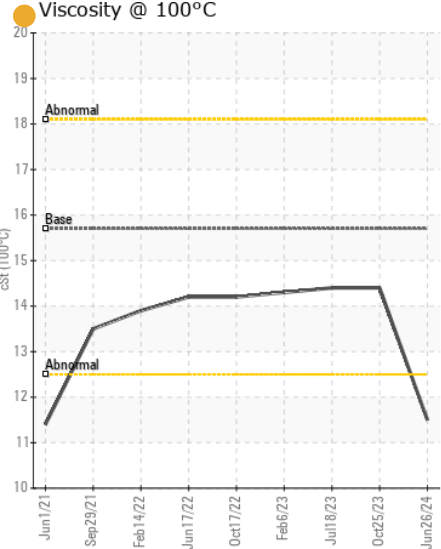
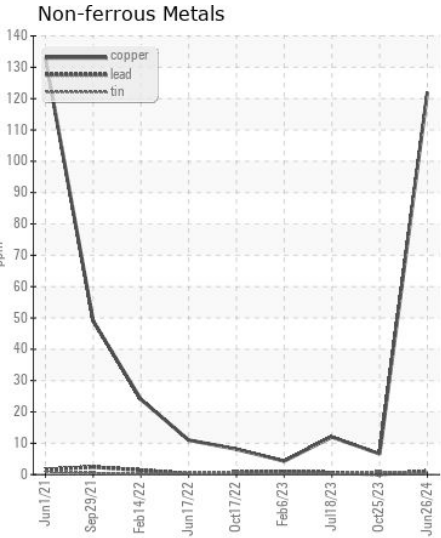
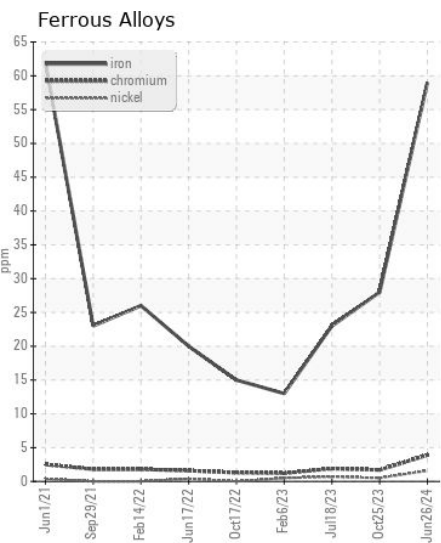
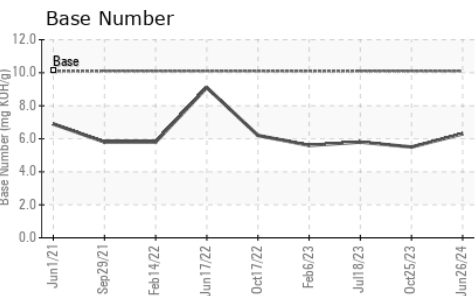
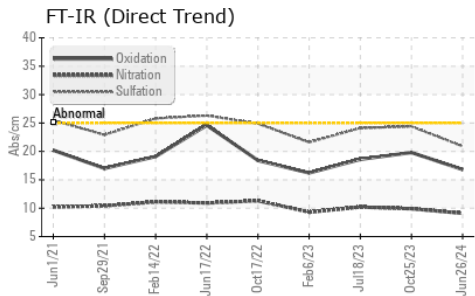
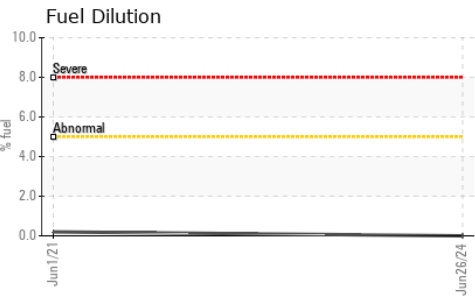
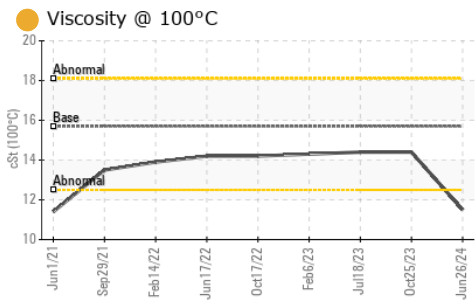
CONTAMINATION

Fuel content negligible. There is no indication of any contamination in the oil.

FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0032933	IL0032756	IL0027448
Sample Date		Client Info		26 Jun 2024	25 Oct 2023	18 Jul 2023
Machine Age	mls	Client Info		385925	307934	274283
Oil Age	mls	Client Info		37499	33651	39450
Filter Age	mls	Client Info		37499	33651	39450
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	59	28	23
Chromium	ppm	ASTM D5185m	>20	4	2	2
Nickel	ppm	ASTM D5185m	>4	2	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	4
Lead	ppm	ASTM D5185m	>40	1	0	<1
Copper	ppm	ASTM D5185m	>330	122	7	12
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	13	8	8
Potassium	ppm	ASTM D5185m	>20	6	18	26
Fuel	%	ASTM D3524	>5	0.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.7	0.9	0.9
Nitration	Abs/cm	*ASTM D7624	>20	9.1	9.9	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	24.4	24.1
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		14	8	9
Boron	ppm	ASTM D5185m	316	10	25	20
Barium	ppm	ASTM D5185m	0.0	0	20	0
Molybdenum	ppm	ASTM D5185m	1.2	53	25	45
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m	24	775	171	185
Calcium	ppm	ASTM D5185m	2292	1335	1862	2113
Phosphorus	ppm	ASTM D5185m	1064	897	889	896
Zinc	ppm	ASTM D5185m	1160	1161	1080	1143
Sulfur	ppm	ASTM D5185m	4996	2725	3898	3766
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	19.8	18.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	6.3	5.5	5.8
Visc @ 100°C	cSt	ASTM D445	15.7	11.5	14.4	14.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0032933
Lab Number : 06225870
Unique Number : 11109363
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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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)*