



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
8317557
 Component
Diesel Engine
 Fluid
S1300 10W30 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0036854	IL06071303	IL05828623
Sample Date		Client Info		17 Jun 2024	19 Jan 2024	05 Apr 2023
Machine Age	mls	Client Info		100448	80600	41486
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	49	33	76
Chromium	ppm	ASTM D5185m	>20	2	1	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	12	10	22
Lead	ppm	ASTM D5185m	>40	8	6	12
Copper	ppm	ASTM D5185m	>330	5	4	24
Tin	ppm	ASTM D5185m	>15	3	2	5
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

There is no indication of any contamination in the oil.

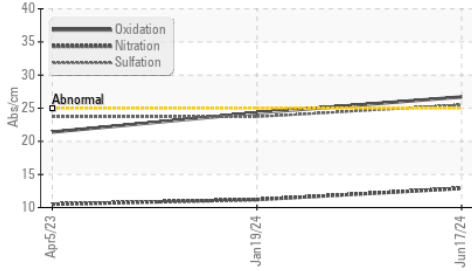
Silicon	ppm	ASTM D5185m	>25	15	13	47
Potassium	ppm	ASTM D5185m	>20	23	22	62
Fuel	%	ASTM D3524	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.7	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	12.9	11.2	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.5	23.7	23.7
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

FLUID CONDITION

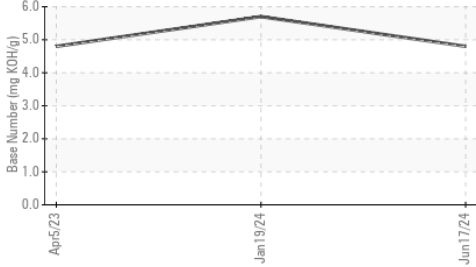
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		4	5	2
Boron	ppm	ASTM D5185m		22	19	25
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		49	49	62
Manganese	ppm	ASTM D5185m		1	1	6
Magnesium	ppm	ASTM D5185m		448	420	419
Calcium	ppm	ASTM D5185m		1696	1582	1696
Phosphorus	ppm	ASTM D5185m		800	727	937
Zinc	ppm	ASTM D5185m		939	893	1194
Sulfur	ppm	ASTM D5185m		2660	2113	2695
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.7	24.3	21.4
Base Number (BN)	mg KOH/g	ASTM D2896		4.8	5.7	4.8
Visc @ 100°C	cSt	ASTM D445		11.5	11.2	11.2

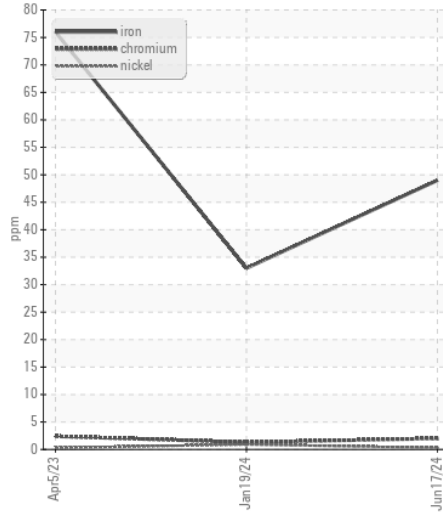
FT-IR (Direct Trend)



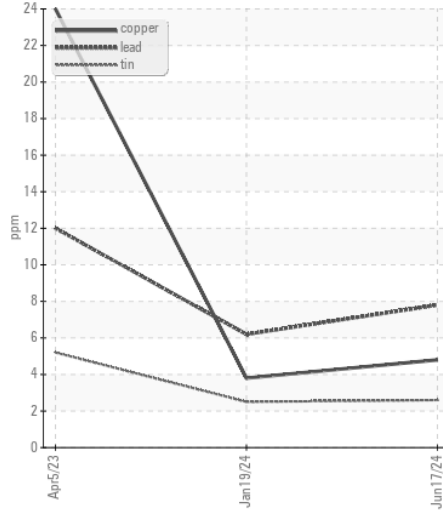
Base Number



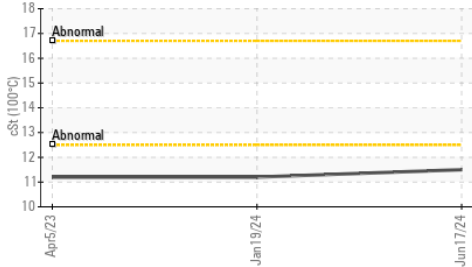
Ferrous Alloys



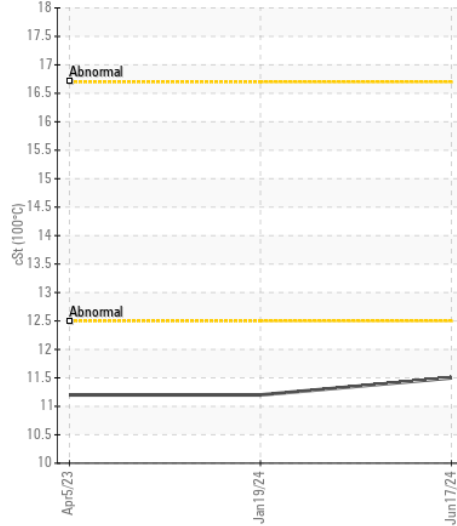
Non-ferrous Metals



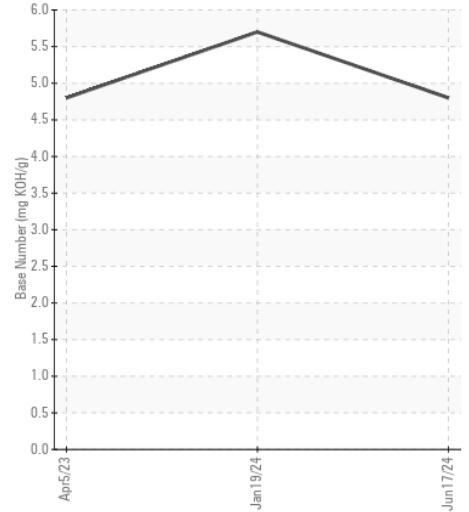
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0036854 **Received** : 17 Jul 2024
Lab Number : 06239701 **Tested** : 19 Jul 2024
Unique Number : 11128535 **Diagnosed** : 19 Jul 2024 - Sean Felton
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

IDEALASE-NORCROSS
 4571 NORTH BUFORD HWY
 NORCROSS, GA
 US 30071-2808
 Contact: RICK MARKS

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)

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