



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
INTERNATIONAL 1571
Component
Diesel Engine
Fluid
SAFETY-KLEEN PERFORMANCE PLUS 10W30 (48 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0802024	WC0852694	WC0691627
Sample Date		Client Info		25 May 2024	19 Dec 2023	01 Jul 2023
Machine Age	hrs	Client Info		18173	749945	685162
Oil Age	hrs	Client Info		18173	33780	701
Filter Age	hrs	Client Info		18173	33780	3858
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	MARGINAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	32	39	38
Chromium	ppm	ASTM D5185m	>5	2	1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	2	2
Lead	ppm	ASTM D5185m	>150	5	15	6
Copper	ppm	ASTM D5185m	>90	2	1	2
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

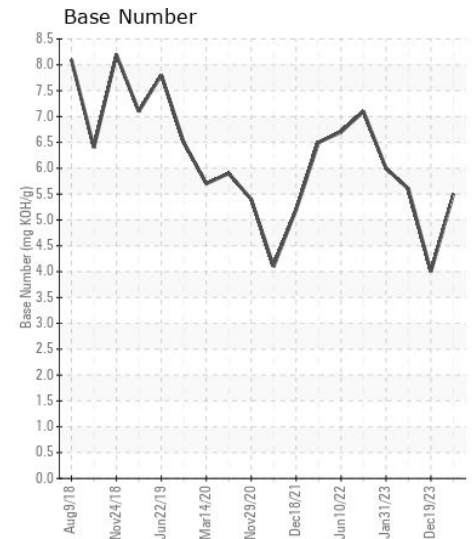
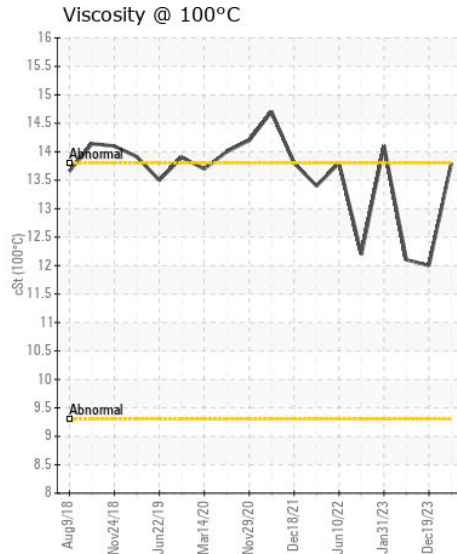
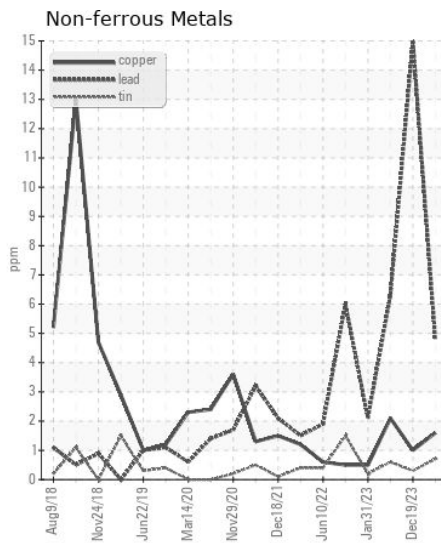
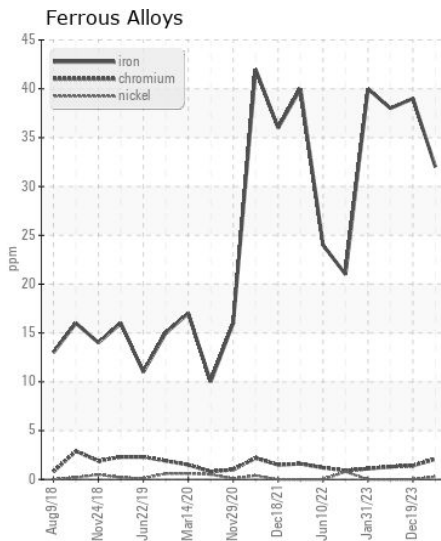
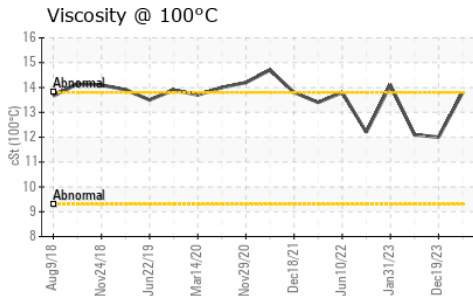
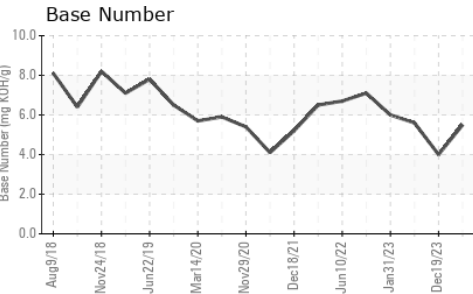
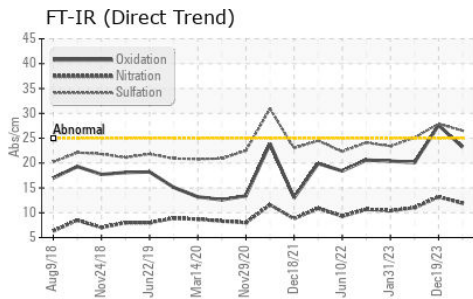
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	6	5	6
Potassium	ppm	ASTM D5185m	>20	5	2	6
Fuel		WC Method	>3.0	<1.0	<1.0	▲ 1.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	0.7	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	11.9	13.2	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.5	27.9	25.1
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

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		2	0	2
Boron	ppm	ASTM D5185m		0	4	8
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		66	65	44
Manganese	ppm	ASTM D5185m		<1	0	1
Magnesium	ppm	ASTM D5185m		460	986	652
Calcium	ppm	ASTM D5185m		1860	1129	1705
Phosphorus	ppm	ASTM D5185m		1156	944	1034
Zinc	ppm	ASTM D5185m		1371	1291	1310
Sulfur	ppm	ASTM D5185m		3566	2968	3948
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.2	27.6	20.1
Base Number (BN)	mg KOH/g	ASTM D2896		5.5	4.0	5.6
Visc @ 100°C	cSt	ASTM D445		13.8	12.0	12.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0802024
Lab Number : 06197368
Unique Number : 11059491
Test Package : FLEET
Received : 03 Jun 2024
Tested : 04 Jun 2024
Diagnosed : 04 Jun 2024 - Sean Felton

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 2801 MIDLAND BLVD.
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 US 72904
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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)