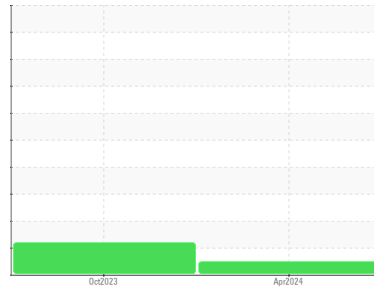




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
NEW UNUSED OILS
 Machine Id
CERTIFIED STRATA SAE 30 CH4
 Component
New (Unused) Oil
 Fluid
CERTIFIED STRATA SAE 30 CH4 (--- GAL)

DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample. (Customer Sample Comment: Virgin Sample)

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0849510	WC0849531	---
Sample Date	Client Info			15 Apr 2024	10 Oct 2023	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			N/A	N/A	---
Sample Status				NORMAL	ATTENTION	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>5	<1	0	---
Chromium	ppm	ASTM D5185m	>5	0	0	---
Nickel	ppm	ASTM D5185m	>5	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>5	0	0	---
Aluminum	ppm	ASTM D5185m	>5	<1	0	---
Lead	ppm	ASTM D5185m	>5	0	0	---
Copper	ppm	ASTM D5185m	>5	0	0	---
Tin	ppm	ASTM D5185m	>5	0	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	2	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		6	0	---
Manganese	ppm	ASTM D5185m		0	0	---
Magnesium	ppm	ASTM D5185m		10	0	---
Calcium	ppm	ASTM D5185m		2375	3	---
Phosphorus	ppm	ASTM D5185m		965	583	---
Zinc	ppm	ASTM D5185m		1050	3	---
Sulfur	ppm	ASTM D5185m		4520	18482	---

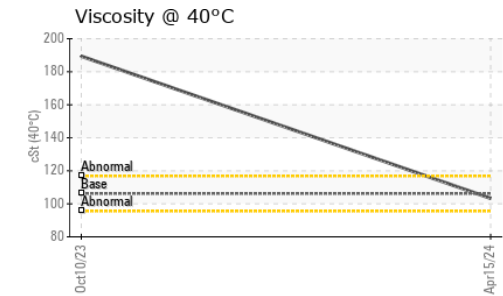
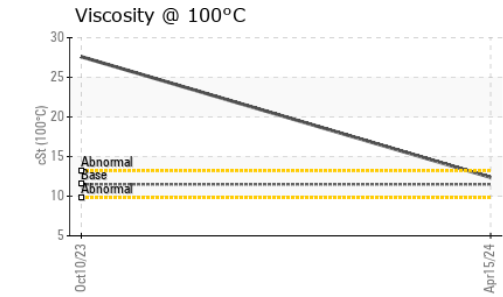
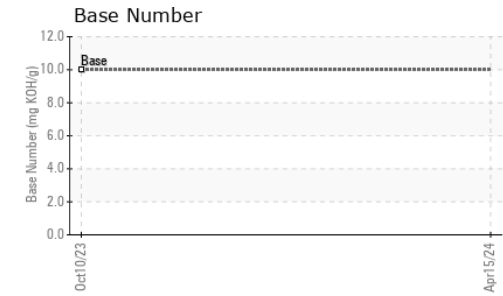
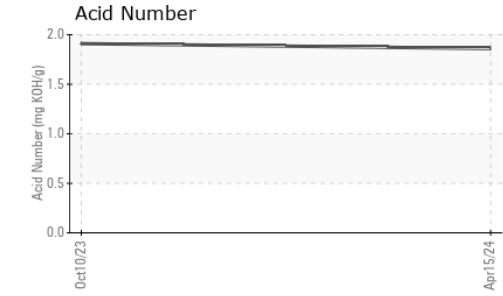
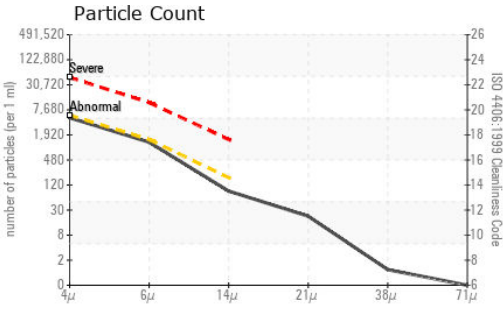
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	6	1	---
Sodium	ppm	ASTM D5185m		2	0	---
Potassium	ppm	ASTM D5185m	>20	0	<1	---
Water	%	ASTM D6304		NEG	NEG	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		---	0.1	---
Nitration	Abs/cm	*ASTM D7624		---	2.4	---
Sulfation	Abs/.1mm	*ASTM D7415		---	54.5	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	4333	689	---
Particles >6µm		ASTM D7647	>1300	1125	211	---
Particles >14µm		ASTM D7647	>160	76	16	---
Particles >21µm		ASTM D7647	>40	19	3	---
Particles >38µm		ASTM D7647	>10	1	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/17/13	17/15/11	---



OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	*ASTM D7414		---	52.8	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.86	1.91	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	7.55	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual		NEG	NEG	---
Free Water	scalar	*Visual		NEG	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	106.2	103.3	● 189.4	---
Visc @ 100°C	cSt	ASTM D445	11.5	12.38	● 27.6	---
Viscosity Index (VI)	Scale	ASTM D2270	95	112	● 183	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						no image
Bottom						no image



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0849510 **Received** : 22 Apr 2024
Lab Number : **06156509** **Tested** : 26 Apr 2024
Unique Number : 10991932 **Diagnosed** : 26 Apr 2024 - Jonathan Hester
Test Package : PLANT (Additional Tests: FT-IR, ICP-NewOil, KV100, TBN, VI)

CERTIFIED LABORATORIES DIVISIONS OF NCH
 PO BOX 152170
 IRVING, TX
 US 75015
 Contact: JASON EDWARDS
 jason.edwards@nch.com

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)