



**PERFORMANCE  
UNDER  
PRESSURE**

**OIL ANALYSIS REPORT**

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**MILACRON EXT 4 (S/N E10A0100005)**

Component  
**Gearbox**

Fluid  
**CASTROL 110/320 (95 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RP0028975</b>	RP0028995	RP0020828
Sample Date		Client Info		<b>21 Dec 2023</b>	28 Jun 2023	17 Jan 2023
Machine Age	hrs	Client Info		<b>39514</b>	37448	34896
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>0</b>	<1	<1
Chromium	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>5</b>	0	0
Lead	ppm	ASTM D5185m	>100	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>200	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185m	>25	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

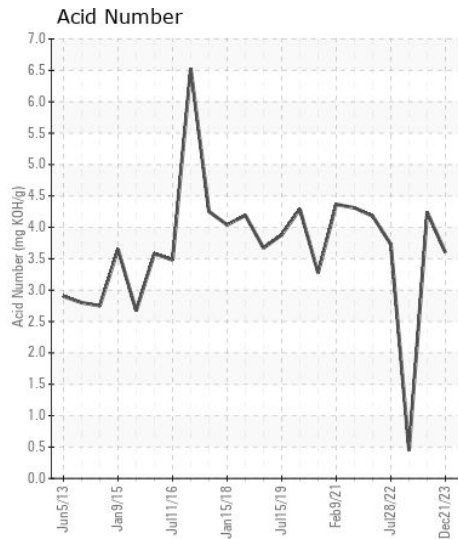
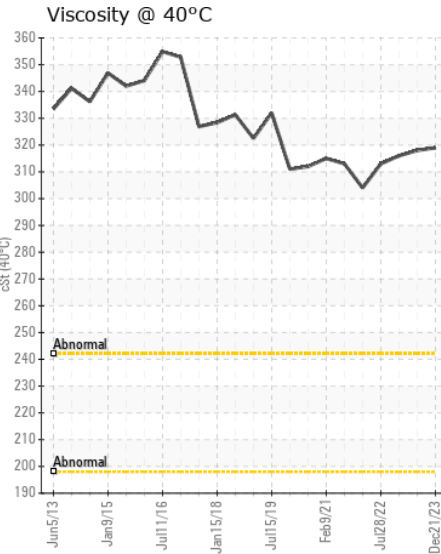
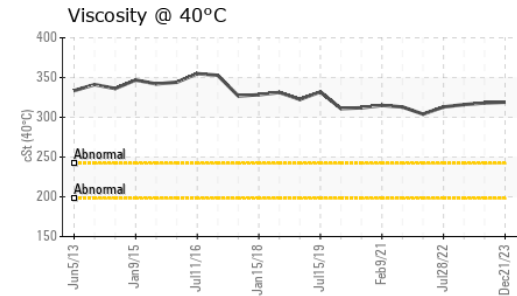
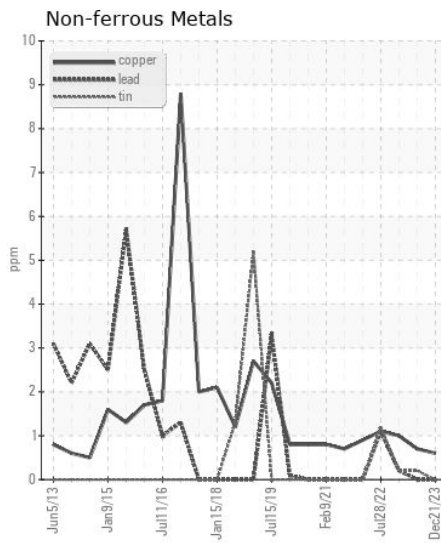
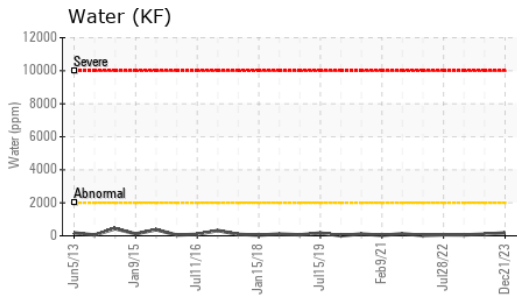
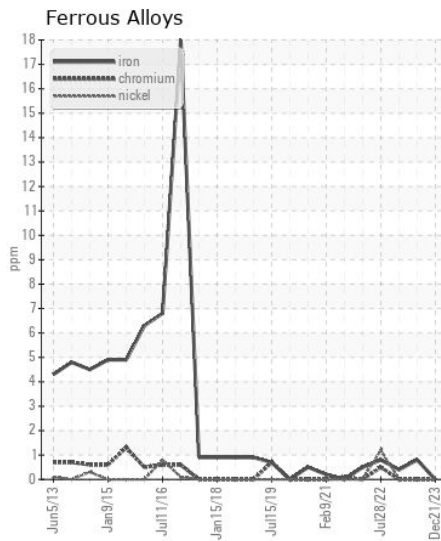
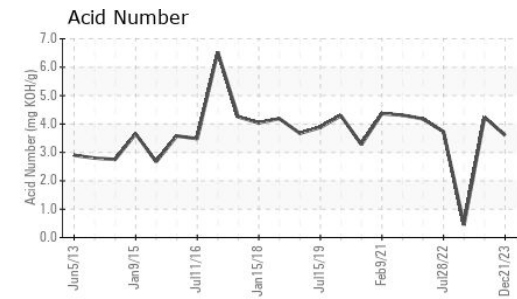
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>20</b>	16	18
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Water	%	ASTM D6304	>0.2	<b>0.017</b>	0.010	0.005
ppm Water	ppm	ASTM D6304	>2000	<b>178</b>	103.2	54.7
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	1	2
Boron	ppm	ASTM D5185m		<b>0</b>	62	47
Barium	ppm	ASTM D5185m		<b>4</b>	6	3
Molybdenum	ppm	ASTM D5185m		<b>1846</b>	2079	1811
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	1	<1
Calcium	ppm	ASTM D5185m		<b>87</b>	106	90
Phosphorus	ppm	ASTM D5185m		<b>2974</b>	3582	3017
Zinc	ppm	ASTM D5185m		<b>1099</b>	1285	1017
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>3.60</b>	4.24	0.448
Visc @ 40°C	cSt	ASTM D445		<b>319</b>	318	316



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0028975 **Received** : 09 Jan 2024  
**Lab Number** : 06055944 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10821893 **Diagnostician** : Wes Davis  
**Test Package** : PLANT ( Additional Tests: KF )

**WESTLAKE CHEMICAL - WESTFIELD**  
 44 GREIF WAY  
 WESTFIELD, MA  
 US 01085  
 Contact: MICHAEL WINN  
 michael\_winn@westlake.net  
 T: (413)485-0161  
 F:

Certificate L2367  
 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)