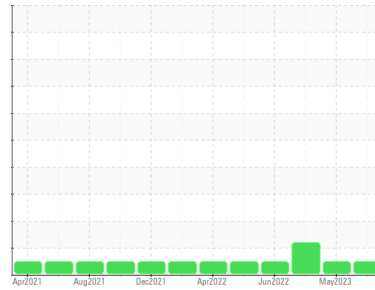


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
Sawmill/Canter
 Machine Id
[Sawmill^Canter] DLI HPU PUMP 1
 Component
Pump
 Fluid
PETRO CANADA HYDREX AW 68 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION

| method | limit/base | current | history1 | history2 |
|---------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | PCA0111703 | PCA0079471 | PCA0079444 |
| Sample Date | Client Info | 13 Nov 2023 | 11 May 2023 | 14 Feb 2023 |
| Machine Age | hrs | Client Info | 0 | 0 |
| Oil Age | hrs | Client Info | 0 | 0 |
| Oil Changed | Client Info | Not Changed | Not Changed | Not Changed |
| Sample Status | | NORMAL | NORMAL | ATTENTION |

WEAR METALS

| method | limit/base | current | history1 | history2 | |
|----------|------------|-----------------|--------------|----------|----|
| Iron | ppm | ASTM D5185m >90 | <1 | 0 | <1 |
| Chromium | ppm | ASTM D5185m >5 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m >5 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m >3 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >7 | <1 | 1 | 0 |
| Lead | ppm | ASTM D5185m >12 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m >30 | <1 | 0 | <1 |
| Tin | ppm | ASTM D5185m >9 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| method | limit/base | current | history1 | history2 | |
|------------|------------|-----------------|--------------|----------|-----|
| Boron | ppm | ASTM D5185m 0 | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m 0 | 7 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m 0 | <1 | 0 | <1 |
| Manganese | ppm | ASTM D5185m 0 | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m 0 | 3 | 0 | 0 |
| Calcium | ppm | ASTM D5185m 50 | 164 | 54 | 53 |
| Phosphorus | ppm | ASTM D5185m 330 | 340 | 340 | 299 |
| Zinc | ppm | ASTM D5185m 430 | 418 | 416 | 351 |
| Sulfur | ppm | ASTM D5185m 760 | 1002 | 648 | 661 |

CONTAMINANTS

| method | limit/base | current | history1 | history2 | |
|-----------|------------|------------------|--------------|----------|-------|
| Silicon | ppm | ASTM D5185m >60 | 1 | <1 | <1 |
| Sodium | ppm | ASTM D5185m | 0 | 0 | <1 |
| Potassium | ppm | ASTM D5185m >20 | <1 | 0 | 0 |
| Water | % | ASTM D6304 >.1 | 0.011 | 0.006 | 0.008 |
| ppm Water | ppm | ASTM D6304 >1000 | 116.6 | 60.5 | 89.6 |

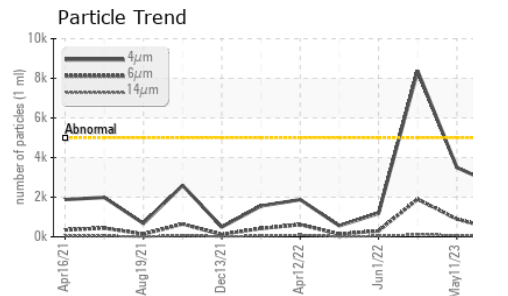
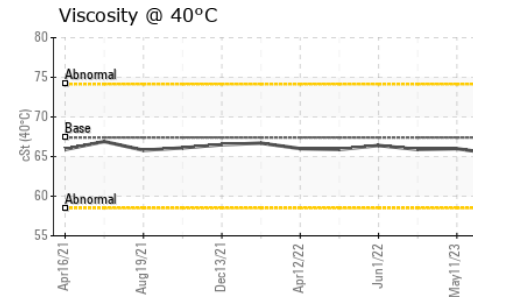
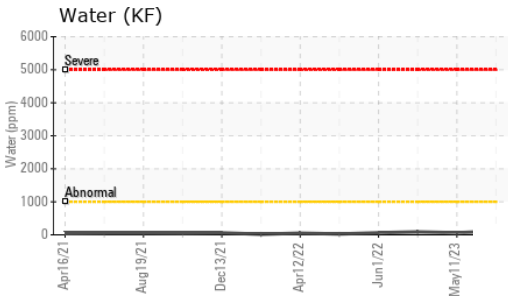
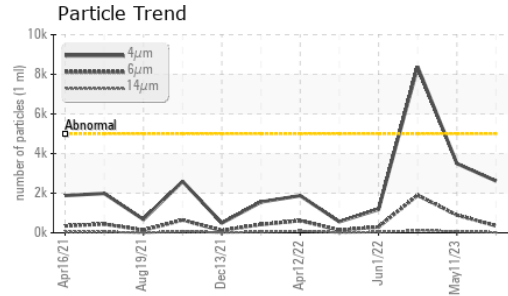
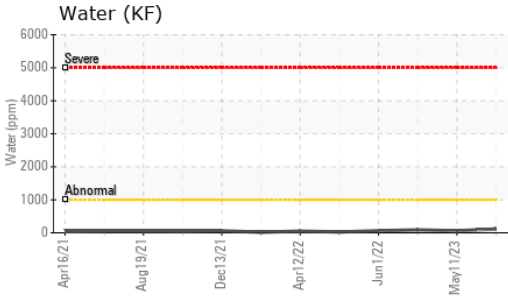
FLUID CLEANLINESS

| method | limit/base | current | history1 | history2 |
|-----------------|------------------------|-----------------|----------|------------|
| Particles >4µm | ASTM D7647 >5000 | 2615 | 3495 | ▲ 8375 |
| Particles >6µm | ASTM D7647 >1300 | 354 | 894 | ▲ 1897 |
| Particles >14µm | ASTM D7647 >160 | 24 | 72 | 115 |
| Particles >21µm | ASTM D7647 >40 | 6 | 24 | 27 |
| Particles >38µm | ASTM D7647 >10 | 0 | 2 | 3 |
| Particles >71µm | ASTM D7647 >3 | 0 | 0 | 0 |
| Oil Cleanliness | ISO 4406 (c) >19/17/14 | 19/16/12 | 19/17/13 | ▲ 20/18/14 |

FLUID DEGRADATION

| method | limit/base | current | history1 | history2 | |
|------------------|------------|-----------------|-------------|----------|------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 0.60 | 0.37 | 0.38 | 0.23 |

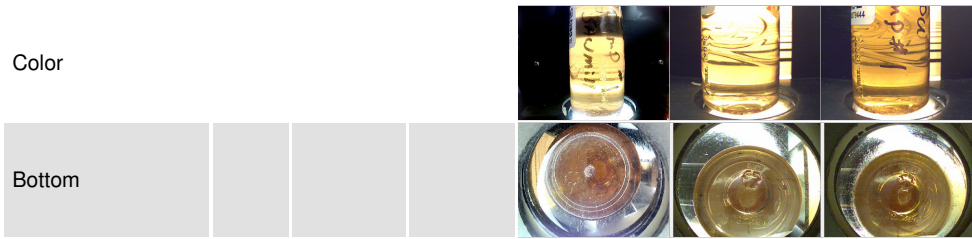
OIL ANALYSIS REPORT



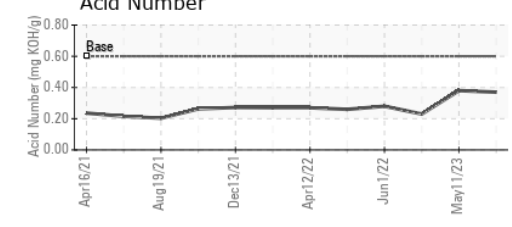
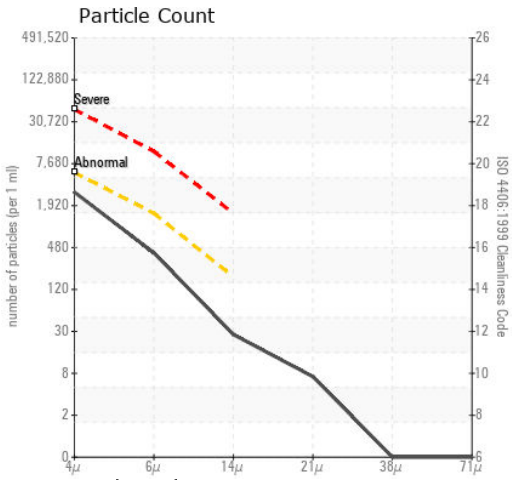
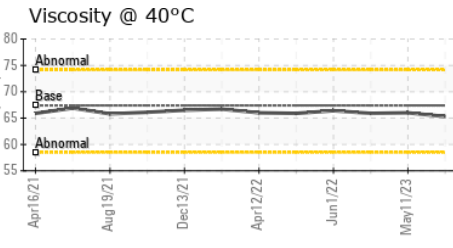
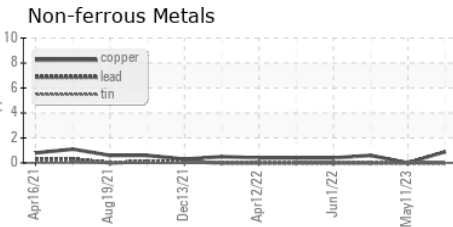
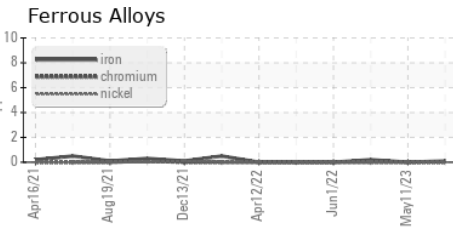
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | 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 | >.1 | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|-------------|----------|------|
| Visc @ 40°C | cSt | ASTM D445 | 67.4 | 65.3 | 66.0 | 65.9 |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0111703
Lab Number : 06009650
Unique Number : 10743412
Test Package : IND 2 (Additional Tests: KF, PrtCount)

West Fraser Inc. - Armour Lumber Mill
 361 Federal Road, PO Box 57
 Riegelwood, NC
 US 28456
 Contact: Jay Wilson
 Jay.B.Wilson@westfraser.com
 T: (910)627-3021
 F: (910)655-9368

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)